Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2313648339
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2313648339
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Environmental Advisor

Signature: Amy Barnhill Date: 9-8-23

email: ABarnhill@chevron.com Telephone: 432-687-7723

OCD Only

Received by: Shelly Wells Date: 9/8/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2313648339
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Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Environmental Advisor

Signature: Amy Barnhill Date: 9-8-23

email: ABarnhill@chevron.com Telephone: 432-687-7723

OCD Only

Received by: Shelly Wells Date: 9/8/2023

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Date:

Tracking Number: nAPP2313648339
Delineation Report and Remediation Plan
Chamaeleon BIN State Com Battery
Produced Water Release
Eddy County, New Mexico

Latitude: N 32.019736°
Longitude: W -104.14068°

LAI Project No. 23-0102-05

August 22, 2023

Prepared for:
Chevron USA Inc.
6301 Deauville Blvd.
Midland, Texas 79706

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

Mark J. Larson, P.G.
Certified Professional Geologist #10490

Robert Nelson
Project Manager

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Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA. Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District II for a produced water release at the Chamaeleon BIN State Com Battery (Site) located in Unit B (NW/NE), Section 25, Township 26 South, Range 27 East in Eddy County, New Mexico. The geodetic position is North 32.019736° and West -104.14068°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on May 6, 2023, due to a load line valve left open. Chevron reported that 10.531 barrels (bbls) of produced water were released, with no fluid recovered. The affected area measures approximately 5,211 square feet. The initial C-141 was submitted to NMOCD District II on May 16, 2023. The release was assigned incident number nAPP2313648339. Appendix A presents the Chevron spill calculation and spill map.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,098 feet above mean sea level (msl).
- The surface topography gradually decreases to the northwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “High Risk” potential.
- The soils are designated as Gypsum land-Cottonwood complex, 0 to 3 percent slopes, consisting of 8 inches of loam, underlain by 8 to 60 inches of bedrock.
- The geology consists of Castile Formation (Upper Permian), dominantly anhydrite sequence (USGS).
- Groundwater was reported at approximately 50 feet below ground surface (bgs) in 2002.
- According to the New Mexico Office of the State Engineer (OSE) the nearest freshwater well is located approximately 2 miles or 10,572 feet northwest of the Site in Section 22, Township 26 South, Range 27 East.

Appendix B presents USGS data depicting karst risk potential map. Appendix C presents the NMOSE soil boring log.

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg
- Chloride 600 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On June 27, 2023, LAI personnel used a stainless-steel hand auger to collect soil samples from four (4) locations inside of the spill area (S-1 through S-5) and in each cardinal direction (north, south, east, and west) of the spill (S-6 through S-9). All samples were collected from to a maximum depth of approximately two (2) feet bgs, depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), by EPA SW-846 Methods 8021B and 8015M, respectively, and chloride by EPA Method M300.

Benzene and BTEX were below the NMOCD remediation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg. TPH and chloride exceeded the NMOCD delineation limit of 100 mg/Kg and 600 mg/Kg in the following samples:

Sample ID	Depth (Feet)	TPH Concentration (mg/Kg)	Chloride Concentration (mg/Kg)
S-2	0 – 1	--	2,270
S-3	0 – 1	--	3,620
S-4	0 – 0.5	1,330	3,710
S-5	0 – 1	--	7,910
S-6	0 – 0.5	--	1,980
S-9	0 – 1	--	6,000
	2	--	5,400

On July 25, 2023, LAI personnel used a Geoprobe 7822DT direct push rig to further delineate the above referenced sample locations where TPH and/or chloride concentrations exceeded the NMOCD delineation limits. Additional horizontal delineation soil samples (S-10 and S-11) were collected approximately ten feet north and west of sample locations S-6 and S-9, respectively. The laboratory results demonstrate that the release was delineated horizontally and vertically according to the NMOCD remediation and closure requirements (19.15.29 NMAC Table 1) for groundwater at a depth less than 50 feet bgs. Table 1 presents the delineation soil sample analytical data summary. Figure 2 presents an aerial

map showing the sample location. Appendix D presents the laboratory reports. Appendix E presents the photographic documentation.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Excavate soil to a depth of approximately 1.5 feet bgs from an area measuring about 5,767 square feet encompassing sample locations S-3, S-4, S-5, and S-6.
- Excavate soil to a depth of approximately two (2) feet bgs from an area measuring about 960 square feet encompassing sample location S-2.
- Excavate soil to a depth of approximately six (6) feet bgs from an area measuring about 875 square feet encompassing sample location S-9.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride to confirm concentrations below the NMOCD closure criteria in Table 1 (19.15.29 NMAC) for groundwater occurring at a depth less than 50 feet bgs.
- Backfill excavation with clean caliche on the production pad assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District II.

Figure 3 presents the proposed excavation areas.

Tables

Table 1
Soil Sample Analytical Data Summary
Chevron - Chamaeleon BIN State Com Battery
Eddy County, New Mexico
32° 01' 11.05" N, 104° 8' 26.45" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100**	**600**
S-1	0 - 1	6/27/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	108
S-2	0 - 1	6/27/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**2,270**
	1	7/25/2023	In-Situ	<0.00200	<0.00399	<50.0	53.3	<50.0	53.3	**1,530**
	3	7/25/2023	In-Situ	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	70.2
	5	7/25/2023	In-Situ	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	242
S-3	0 - 1	6/27/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**3,620**
	1	7/25/2023	In-Situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	458
	3	7/25/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	94.5
	5	7/25/2023	In-Situ	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	235
S-4	0 - 0.5	6/27/2023	In-Situ	<0.00201	<0.00402	<50.0	1,330	<50.0	**1,330**	**3,710**
	1	7/25/2023	In-Situ	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	305
	3	7/25/2023	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	66.1
	5	7/25/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	132
	10	7/25/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	563
S-5	0 - 1	6/27/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**7,910**
	1	7/25/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	140
	3	7/25/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	73.9
	5	7/25/2023	In-Situ	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	92.4
S-6	0 - 0.5	6/27/2023	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	**1,980**
	1	7/25/2023	In-Situ	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	223
	3	7/25/2023	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	117
	5	7/25/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	217

Table 1
Soil Sample Analytical Data Summary
Chevron - Chamaeleon BIN State Com Battery
Eddy County, New Mexico
32° 01' 11.05" N, 104° 8' 26.45" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100**	**600**
S-7	0 - 1	6/27/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	333
S-8	0 - 1	6/27/2023	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	53.3
S-9	0 - 1	6/27/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**6,000**
	2	6/27/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**5,400**
	1	7/25/2023	In-Situ	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	**839**
	3	7/25/2023	In-Situ	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	358
	5	7/25/2023	In-Situ	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	**665**
	8	7/25/2023	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	453
S-10	0 - 1	8/7/2023	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	57.3
S-11	0 - 1	7/25/2023	In-Situ	<0.00199	<0.00398	<50.2	53.2	<50.2	53.2	459

Notes: Analysis performed byand Xenco Laboratories in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation action limits

Figures

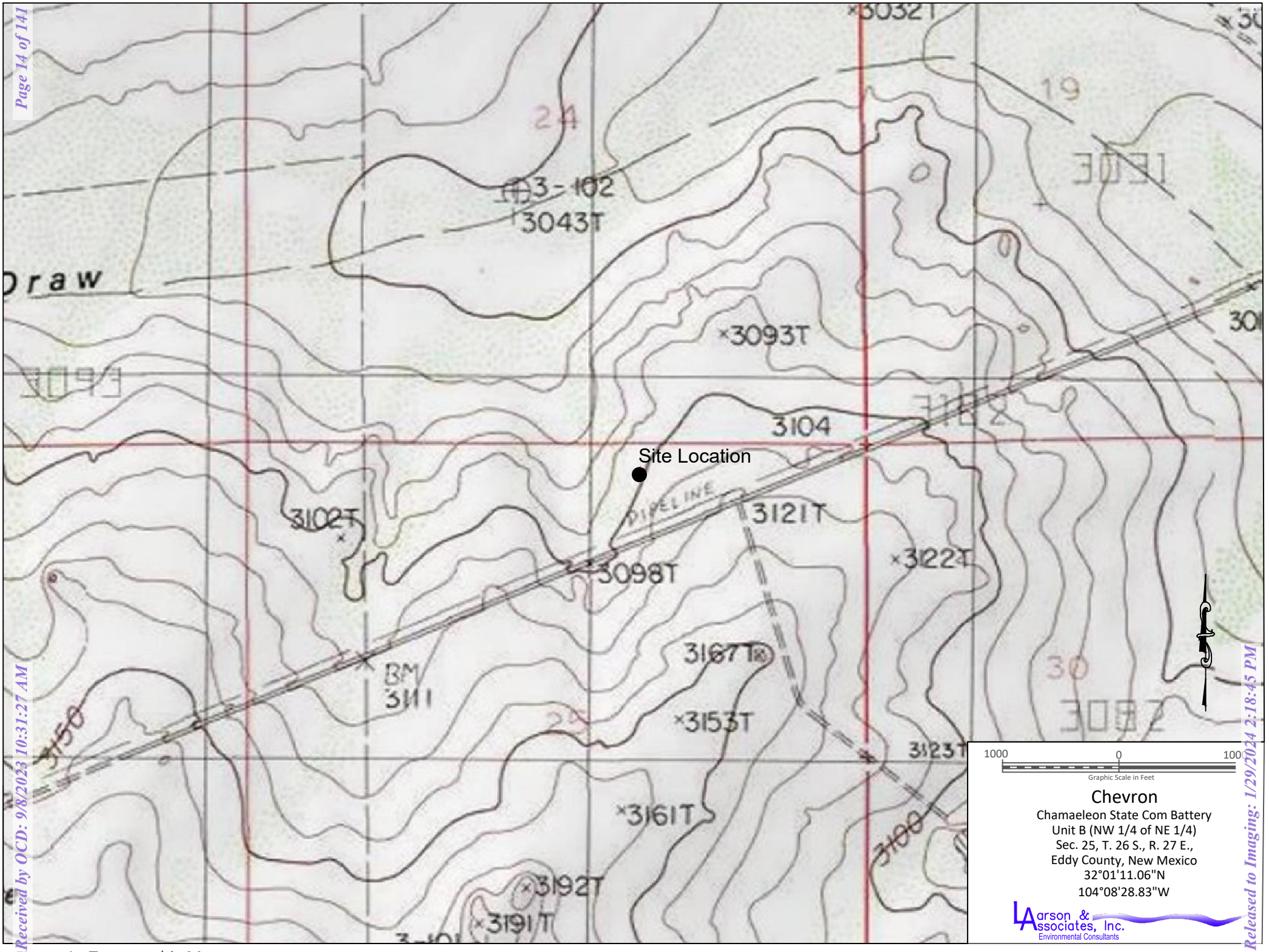


Figure 1 - Topographic Map

Figure 2 - Aerial Map

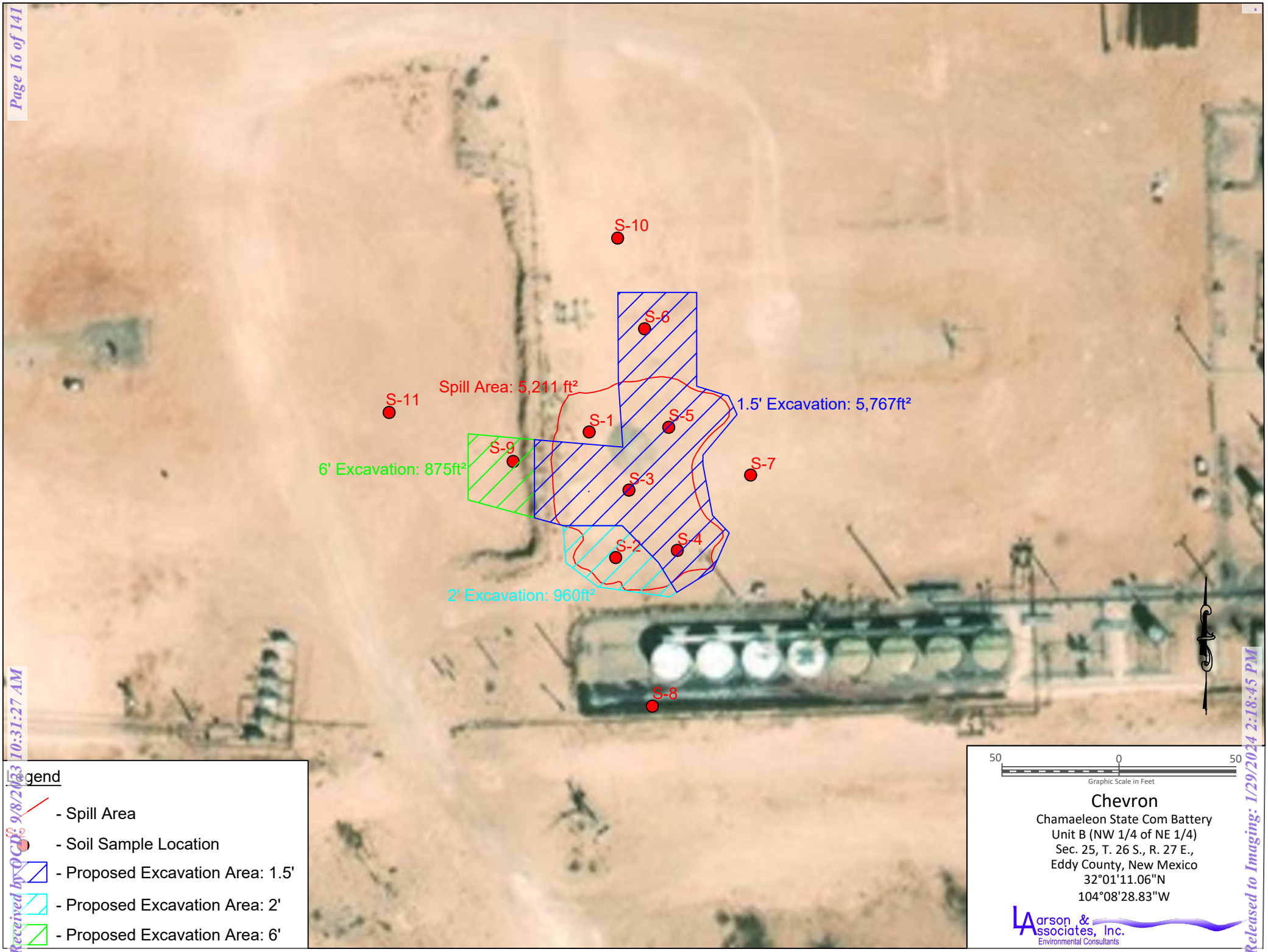


Figure 3 - Aerial Map Showing Proposed Excavation Areas

Appendix A

Chevron Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2313648339
District RP	
Facility ID	fAPP2131330137
Application ID	217343

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Aaron Rotto	Contact Telephone: 281-543-3205
Contact email: aaron.rotto@chevron.com	Incident # nAPP2313648339
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.019736 Longitude: -104.14068
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chamaeleon BIN State Com Battery	Site Type: Oil
Date Release Discovered: 05/06/2023	API# *(if applicable):*

Unit Letter	Section	Township	Range	County
B	25	26S	27E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 10.531	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Load line valve Left open.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2313648339
District RP	
Facility ID	fAPP2131330137
Application ID	217343

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? Release over 25 bbl.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: ____Aaron Rotto_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: _____ Date: 05/16/2023_____

email: _____aaron.rotto@chevron.com _____ Telephone: ____281-543-3205_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2313648339
District RP	
Facility ID	fAPP2131330137
Application ID	217343

Spill Calculations:

Total Spill

Oil Recovered (bbl)	Oil Released (bbl)	Water Recovered (bbl)	Water Released (bbl)
			10.53

Spill Calculations

Area 1_Shape	Area 1_StandingLiquidDimensions	Area 1_PenetrationDepth	Area 1_Water to Soil	Area 1_Standing Liquid Volume	Area 1_Oil Volume	Area 1_Water Volume
Rectangle	50 ft x 35 ft x in	2 in	7.792 bbl	7.792 bbl	.000 bbl	7.792 bbl
Area 2_Shape	**Area 2_StandingLiquidDimensions**	**Area 2_PenetrationDepth**	**Area 2_Water to Soil**	**Area 2_Standing Liquid Volume**	**Area 2_Oil Volume**	**Area 2_Water Volume**
Triangle	22 ft x 15 ft x in	2 in	.735 bbl	.735 bbl	.000 bbl	0.735 bbl
Area 3_Shape	**Area 3_StandingLiquidDimensions**	**Area 3_PenetrationDepth**	**Area 3_Water to Soil**	**Area 3_Standing Liquid Volume**	**Area 3_Oil Volume**	**Area 3_Water Volume**
Rectangle	30 ft x 15 ft x in	2 in	2.004 bbl	2.004 bbl	.000 bbl	2.004 bbl

Appendix B

Karst Risk Potential


Chamaeleon BIN State Com Battery
High

Appendix C

NMOSE Soil Boring Log

2

Revised June 1972

H72362

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Phil Stell Owner's Well No. C-2930

Street or Post Office Address 1305 January

City and State Carlsbad, NM 88220

Well was drilled under Permit No. _____ and is located in the:

a. NE ¼ S.W ¼ SE ¼ ____ ¼ of Section 22 Township 26 S Range 27E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor B & H Drilling License No. 1027

Address P.O. Box 72

Drilling Began 9-6-02 Completed 9-12-02 Type tools Cable Size of hole 7" in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 100' ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
50'	62'	12'	Lime, Sand, Gravel	
80'	100'	20'	Lime	12 G.P.M.

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
6"			100'	100'		N/A	50'	100'

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received Dec. 19, 2002

Quad _____ FWL _____ FSL _____

File No. C-2930 Use Dom/Stk Location No. 26S.27.22.432

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO
2002 DEC 19 PM 3:51

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0'	35'	35'	Topsoil & Caliche
35'	45'	10'	Gypsum & Red Sand
45'	50'	5'	Red Sand & Anhydrite
50'	62'	12'	Lime & Sand & Gravel (water)
62'	72'	10'	Tan/White Sand
72'	76'	4'	Red Bed
76'	80'	4'	Anhydrite
80'	100'	20'	Lime (water)

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Scott Dobson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Appendix D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 6/29/2023 4:04:50 PM

JOB DESCRIPTION

Chamaeleon State
SDG NUMBER 23-0102-05

JOB NUMBER

880-30102-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
6/29/2023 4:04:50 PM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Laboratory Job ID: 880-30102-1
SDG: 23-0102-05

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Job ID: 880-30102-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30102-1

Receipt
The samples were received on 6/28/2023 10:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-56462 and 880-56491 and analytical batch 880-56449 was outside the control limits.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-56491 and analytical batch 880-56449 recovered outside control limits for the following analytes: Benzene. The LCSD/MS/MSD will show recovery for the batch; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56449 recovered below the lower control limit for Benzene and Toluene. An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56449/51).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 0-1' (880-30102-1), S-2 0-1' (880-30102-2), S-3 0-1' (880-30102-3), S-4 0-0.5' (880-30102-4), S-5 0-1' (880-30102-5), S-6 0-0.5' (880-30102-6), S-7 0-1' (880-30102-7), S-8 0-1' (880-30102-8), S-9 0-1' (880-30102-9), S-9 2' (880-30102-10), (880-30102-A-1-F MS) and (880-30102-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56502 and analytical batch 880-56450 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-1 0-1'
Date Collected: 06/27/23 12:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		06/28/23 10:58	06/29/23 00:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 00:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 00:47	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 00:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 00:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*06/28/23 10:58*	*06/29/23 00:47*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/28/23 10:58*	*06/29/23 00:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 21:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 21:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*219*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 21:59*	*1*
o-Terphenyl (Surr)	*173*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 21:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		5.03		mg/Kg			06/28/23 14:39	1

Client Sample ID: S-2 0-1'
Date Collected: 06/27/23 12:10
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 01:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:08*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-2 0-1'
Date Collected: 06/27/23 12:10
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 23:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/28/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*233*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:07*	*1*
o-Terphenyl (Surr)	*213*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2270**		50.5		mg/Kg			06/28/23 14:45	10

Client Sample ID: S-3 0-1'
Date Collected: 06/27/23 12:20
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:29	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 01:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 01:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:29*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 23:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 23:29	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-3 0-1'
Date Collected: 06/27/23 12:20
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*249*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:29*	*1*
o-Terphenyl (Surr)	*229*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3620**		100		mg/Kg			06/28/23 14:50	20

Client Sample ID: S-4 0-0.5'
Date Collected: 06/27/23 12:30
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		06/28/23 10:58	06/29/23 01:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 01:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 01:49	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 01:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 01:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:49*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/28/23 10:58*	*06/29/23 01:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1330**		50.0		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 23:52	1
Diesel Range Organics (Over C10-C28)	**1330**		50.0		mg/Kg		06/28/23 13:20	06/28/23 23:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*220*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:52*	*1*
o-Terphenyl (Surr)	*177*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3710**		100		mg/Kg			06/28/23 14:56	20

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-5 0-1'
Date Collected: 06/27/23 12:40
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:10	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/28/23 10:58	06/29/23 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/23 10:58	06/29/23 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:10*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/29/23 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/29/23 00:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/29/23 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*229*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:14*	*1*
o-Terphenyl (Surr)	*210*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7910**		100		mg/Kg			06/28/23 15:02	20

Client Sample ID: S-6 0-0.5'
Date Collected: 06/27/23 12:50
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 10:58	06/29/23 02:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 10:58	06/29/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:30*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-6 0-0.5'
Date Collected: 06/27/23 12:50
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*220*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:36*	*1*
o-Terphenyl (Surr)	*190*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1980**		49.7		mg/Kg			06/28/23 15:08	10

Client Sample ID: S-7 0-1'
Date Collected: 06/27/23 13:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/28/23 10:58	06/29/23 02:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 02:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/28/23 10:58	06/29/23 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:51*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*06/28/23 10:58*	*06/29/23 02:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 00:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 00:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-7 0-1'
Date Collected: 06/27/23 13:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*219*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:59*	*1*
o-Terphenyl (Surr)	*152*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**333**		5.01		mg/Kg			06/28/23 15:25	1

Client Sample ID: S-8 0-1'
Date Collected: 06/27/23 13:10
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		06/28/23 10:58	06/29/23 03:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/23 10:58	06/29/23 03:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/23 10:58	06/29/23 03:11	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/28/23 10:58	06/29/23 03:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/23 10:58	06/29/23 03:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/23 10:58	06/29/23 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:11*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*206*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 01:21*	*1*
o-Terphenyl (Surr)	*186*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.3**		5.04		mg/Kg			06/28/23 15:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-9 0-1'

Date Collected: 06/27/23 13:20
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-9

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		06/28/23 10:58	06/29/23 03:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 03:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 03:32	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 03:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/23 10:58	06/29/23 03:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/23 10:58	06/29/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:32*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/23 13:20	06/29/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*218*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 01:44*	*1*
o-Terphenyl (Surr)	*203*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 01:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6000**		101		mg/Kg			06/28/23 15:49	20

Client Sample ID: S-9 2'

Date Collected: 06/27/23 13:25
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-10

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		06/28/23 10:58	06/29/23 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 03:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 03:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/28/23 10:58	06/29/23 03:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/28/23 10:58	06/29/23 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:52*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/28/23 10:58*	*06/29/23 03:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-9 2'

Date Collected: 06/27/23 13:25
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-10

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/29/23 10:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/23 09:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 02:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 02:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/23 13:20	06/29/23 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*201*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 02:06*	*1*
o-Terphenyl (Surr)	*185*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/29/23 02:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5400**		99.8		mg/Kg			06/28/23 15:55	20

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-30102-1	S-1 0-1'	81	80
880-30102-1 MS	S-1 0-1'	114	108
880-30102-1 MSD	S-1 0-1'	106	111
880-30102-2	S-2 0-1'	79	71
880-30102-3	S-3 0-1'	89	84
880-30102-4	S-4 0-0.5'	86	88
880-30102-5	S-5 0-1'	86	82
880-30102-6	S-6 0-0.5'	86	81
880-30102-7	S-7 0-1'	86	82
880-30102-8	S-8 0-1'	90	82
880-30102-9	S-9 0-1'	87	85
880-30102-10	S-9 2'	87	80
LCS 880-56491/1-A	Lab Control Sample	105	111
LCSD 880-56491/2-A	Lab Control Sample Dup	111	112
MB 880-56462/5-A	Method Blank	65 S1-	101
MB 880-56491/5-A	Method Blank	67 S1-	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-30102-1	S-1 0-1'	219 S1+	173 S1+
880-30102-1 MS	S-1 0-1'	210 S1+	158 S1+
880-30102-1 MSD	S-1 0-1'	180 S1+	133 S1+
880-30102-2	S-2 0-1'	233 S1+	213 S1+
880-30102-3	S-3 0-1'	249 S1+	229 S1+
880-30102-4	S-4 0-0.5'	220 S1+	177 S1+
880-30102-5	S-5 0-1'	229 S1+	210 S1+
880-30102-6	S-6 0-0.5'	220 S1+	190 S1+
880-30102-7	S-7 0-1'	219 S1+	152 S1+
880-30102-8	S-8 0-1'	206 S1+	186 S1+
880-30102-9	S-9 0-1'	218 S1+	203 S1+
880-30102-10	S-9 2'	201 S1+	185 S1+
LCS 880-56502/2-A	Lab Control Sample	112	100
LCSD 880-56502/3-A	Lab Control Sample Dup	108	96
MB 880-56502/1-A	Method Blank	131 S1+	117

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56462/5-A
Matrix: Solid
Analysis Batch: 56449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56462

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:44	06/28/23 13:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:44	06/28/23 13:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:44	06/28/23 13:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 08:44	06/28/23 13:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 08:44	06/28/23 13:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 08:44	06/28/23 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*06/28/23 08:44*	*06/28/23 13:41*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/28/23 08:44*	*06/28/23 13:41*	*1*

Lab Sample ID: MB 880-56491/5-A
Matrix: Solid
Analysis Batch: 56449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56491

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 00:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 00:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 00:26	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/28/23 10:58	06/29/23 00:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/23 10:58	06/29/23 00:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/23 10:58	06/29/23 00:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*06/28/23 10:58*	*06/29/23 00:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/28/23 10:58*	*06/29/23 00:26*	*1*

Lab Sample ID: LCS 880-56491/1-A
Matrix: Solid
Analysis Batch: 56449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1323	*+	mg/Kg		132	70 - 130		
Toluene			0.100	0.1177		mg/Kg		118	70 - 130		
Ethylbenzene			0.100	0.1100		mg/Kg		110	70 - 130		
m,p-Xylenes			0.200	0.2260		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-56491/2-A
Matrix: Solid
Analysis Batch: 56449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56491

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1221		mg/Kg		122	70 - 130	8	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-56491/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56449 — **Prep Batch: 56491**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1084		mg/Kg		108	70 - 130	8	35
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130	3	35
m,p-Xylenes			0.200	0.2273		mg/Kg		114	70 - 130	1	35
o-Xylene			0.100	0.1116		mg/Kg		112	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-30102-1 MS — **Client Sample ID: S-1 0-1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56449 — **Prep Batch: 56491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *+	0.101	0.1040		mg/Kg		103	70 - 130
Toluene	<0.00201	U	0.101	0.09218		mg/Kg		90	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.09175		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1891		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.101	0.09124		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-30102-1 MSD — **Client Sample ID: S-1 0-1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56449 — **Prep Batch: 56491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *+	0.100	0.09577		mg/Kg		96	70 - 130	8	35
Toluene	<0.00201	U	0.100	0.08442		mg/Kg		83	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.100	0.08385		mg/Kg		84	70 - 130	9	35
m,p-Xylenes	<0.00402	U	0.200	0.1699		mg/Kg		85	70 - 130	11	35
o-Xylene	<0.00201	U	0.100	0.08219		mg/Kg		82	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-56502/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56450 — **Prep Batch: 56502**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 20:49	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-56502/1-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56502

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 20:49	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/23 13:20	06/28/23 20:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*	*06/28/23 13:20*	*06/28/23 20:49*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*06/28/23 13:20*	*06/28/23 20:49*	*1*

Lab Sample ID: LCS 880-56502/2-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56502

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1220		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	907.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-56502/3-A
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56502

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1263		mg/Kg		126	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	967.6		mg/Kg		97	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-30102-1 MS
Matrix: Solid
Analysis Batch: 56450

Client Sample ID: S-1 0-1'
Prep Type: Total/NA
Prep Batch: 56502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1118		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*210*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*158*	*S1+*	*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-30102-1 MSD — **Client Sample ID: S-1 0-1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 56450 — **Prep Batch: 56502**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1023		mg/Kg		101	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	954.3		mg/Kg		94	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*180*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56486/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/28/23 13:29	1

Lab Sample ID: LCS 880-56486/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.1		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-56486/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56499

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30102-6 MS — **Client Sample ID: S-6 0-0.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1980		2490	4493		mg/Kg		101	90 - 110		

Lab Sample ID: 880-30102-6 MSD — **Client Sample ID: S-6 0-0.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 56499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1980		2490	4460		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

GC VOA

Analysis Batch: 56449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	8021B	56491
880-30102-2	S-2 0-1'	Total/NA	Solid	8021B	56491
880-30102-3	S-3 0-1'	Total/NA	Solid	8021B	56491
880-30102-4	S-4 0-0.5'	Total/NA	Solid	8021B	56491
880-30102-5	S-5 0-1'	Total/NA	Solid	8021B	56491
880-30102-6	S-6 0-0.5'	Total/NA	Solid	8021B	56491
880-30102-7	S-7 0-1'	Total/NA	Solid	8021B	56491
880-30102-8	S-8 0-1'	Total/NA	Solid	8021B	56491
880-30102-9	S-9 0-1'	Total/NA	Solid	8021B	56491
880-30102-10	S-9 2'	Total/NA	Solid	8021B	56491
MB 880-56462/5-A	Method Blank	Total/NA	Solid	8021B	56462
MB 880-56491/5-A	Method Blank	Total/NA	Solid	8021B	56491
LCS 880-56491/1-A	Lab Control Sample	Total/NA	Solid	8021B	56491
LCSD 880-56491/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56491
880-30102-1 MS	S-1 0-1'	Total/NA	Solid	8021B	56491
880-30102-1 MSD	S-1 0-1'	Total/NA	Solid	8021B	56491

Prep Batch: 56462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56462/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 56491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	5035	
880-30102-2	S-2 0-1'	Total/NA	Solid	5035	
880-30102-3	S-3 0-1'	Total/NA	Solid	5035	
880-30102-4	S-4 0-0.5'	Total/NA	Solid	5035	
880-30102-5	S-5 0-1'	Total/NA	Solid	5035	
880-30102-6	S-6 0-0.5'	Total/NA	Solid	5035	
880-30102-7	S-7 0-1'	Total/NA	Solid	5035	
880-30102-8	S-8 0-1'	Total/NA	Solid	5035	
880-30102-9	S-9 0-1'	Total/NA	Solid	5035	
880-30102-10	S-9 2'	Total/NA	Solid	5035	
MB 880-56491/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56491/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56491/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30102-1 MS	S-1 0-1'	Total/NA	Solid	5035	
880-30102-1 MSD	S-1 0-1'	Total/NA	Solid	5035	

Analysis Batch: 56563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	Total BTEX	
880-30102-2	S-2 0-1'	Total/NA	Solid	Total BTEX	
880-30102-3	S-3 0-1'	Total/NA	Solid	Total BTEX	
880-30102-4	S-4 0-0.5'	Total/NA	Solid	Total BTEX	
880-30102-5	S-5 0-1'	Total/NA	Solid	Total BTEX	
880-30102-6	S-6 0-0.5'	Total/NA	Solid	Total BTEX	
880-30102-7	S-7 0-1'	Total/NA	Solid	Total BTEX	
880-30102-8	S-8 0-1'	Total/NA	Solid	Total BTEX	
880-30102-9	S-9 0-1'	Total/NA	Solid	Total BTEX	
880-30102-10	S-9 2'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

GC Semi VOA

Analysis Batch: 56450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-2	S-2 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-3	S-3 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-4	S-4 0-0.5'	Total/NA	Solid	8015B NM	56502
880-30102-5	S-5 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-6	S-6 0-0.5'	Total/NA	Solid	8015B NM	56502
880-30102-7	S-7 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-8	S-8 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-9	S-9 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-10	S-9 2'	Total/NA	Solid	8015B NM	56502
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015B NM	56502
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56502
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56502
880-30102-1 MS	S-1 0-1'	Total/NA	Solid	8015B NM	56502
880-30102-1 MSD	S-1 0-1'	Total/NA	Solid	8015B NM	56502

Prep Batch: 56502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-2	S-2 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-3	S-3 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-4	S-4 0-0.5'	Total/NA	Solid	8015NM Prep	
880-30102-5	S-5 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-6	S-6 0-0.5'	Total/NA	Solid	8015NM Prep	
880-30102-7	S-7 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-8	S-8 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-9	S-9 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-10	S-9 2'	Total/NA	Solid	8015NM Prep	
MB 880-56502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30102-1 MS	S-1 0-1'	Total/NA	Solid	8015NM Prep	
880-30102-1 MSD	S-1 0-1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Total/NA	Solid	8015 NM	
880-30102-2	S-2 0-1'	Total/NA	Solid	8015 NM	
880-30102-3	S-3 0-1'	Total/NA	Solid	8015 NM	
880-30102-4	S-4 0-0.5'	Total/NA	Solid	8015 NM	
880-30102-5	S-5 0-1'	Total/NA	Solid	8015 NM	
880-30102-6	S-6 0-0.5'	Total/NA	Solid	8015 NM	
880-30102-7	S-7 0-1'	Total/NA	Solid	8015 NM	
880-30102-8	S-8 0-1'	Total/NA	Solid	8015 NM	
880-30102-9	S-9 0-1'	Total/NA	Solid	8015 NM	
880-30102-10	S-9 2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

HPLC/IC

Leach Batch: 56486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Soluble	Solid	DI Leach	
880-30102-2	S-2 0-1'	Soluble	Solid	DI Leach	
880-30102-3	S-3 0-1'	Soluble	Solid	DI Leach	
880-30102-4	S-4 0-0.5'	Soluble	Solid	DI Leach	
880-30102-5	S-5 0-1'	Soluble	Solid	DI Leach	
880-30102-6	S-6 0-0.5'	Soluble	Solid	DI Leach	
880-30102-7	S-7 0-1'	Soluble	Solid	DI Leach	
880-30102-8	S-8 0-1'	Soluble	Solid	DI Leach	
880-30102-9	S-9 0-1'	Soluble	Solid	DI Leach	
880-30102-10	S-9 2'	Soluble	Solid	DI Leach	
MB 880-56486/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56486/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56486/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30102-6 MS	S-6 0-0.5'	Soluble	Solid	DI Leach	
880-30102-6 MSD	S-6 0-0.5'	Soluble	Solid	DI Leach	

Analysis Batch: 56499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30102-1	S-1 0-1'	Soluble	Solid	300.0	56486
880-30102-2	S-2 0-1'	Soluble	Solid	300.0	56486
880-30102-3	S-3 0-1'	Soluble	Solid	300.0	56486
880-30102-4	S-4 0-0.5'	Soluble	Solid	300.0	56486
880-30102-5	S-5 0-1'	Soluble	Solid	300.0	56486
880-30102-6	S-6 0-0.5'	Soluble	Solid	300.0	56486
880-30102-7	S-7 0-1'	Soluble	Solid	300.0	56486
880-30102-8	S-8 0-1'	Soluble	Solid	300.0	56486
880-30102-9	S-9 0-1'	Soluble	Solid	300.0	56486
880-30102-10	S-9 2'	Soluble	Solid	300.0	56486
MB 880-56486/1-A	Method Blank	Soluble	Solid	300.0	56486
LCS 880-56486/2-A	Lab Control Sample	Soluble	Solid	300.0	56486
LCSD 880-56486/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56486
880-30102-6 MS	S-6 0-0.5'	Soluble	Solid	300.0	56486
880-30102-6 MSD	S-6 0-0.5'	Soluble	Solid	300.0	56486

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-1 0-1'
Date Collected: 06/27/23 12:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 00:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/28/23 21:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56499	06/28/23 14:39	CH	EET MID

Client Sample ID: S-2 0-1'
Date Collected: 06/27/23 12:10
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 01:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/28/23 23:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	56499	06/28/23 14:45	CH	EET MID

Client Sample ID: S-3 0-1'
Date Collected: 06/27/23 12:20
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 01:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/28/23 23:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	56499	06/28/23 14:50	CH	EET MID

Client Sample ID: S-4 0-0.5'
Date Collected: 06/27/23 12:30
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 01:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-4 0-0.5'
Date Collected: 06/27/23 12:30
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/28/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	56499	06/28/23 14:56	CH	EET MID

Client Sample ID: S-5 0-1'
Date Collected: 06/27/23 12:40
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 02:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	56499	06/28/23 15:02	CH	EET MID

Client Sample ID: S-6 0-0.5'
Date Collected: 06/27/23 12:50
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 02:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	56499	06/28/23 15:08	CH	EET MID

Client Sample ID: S-7 0-1'
Date Collected: 06/27/23 13:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 02:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 00:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Client Sample ID: S-7 0-1'
Date Collected: 06/27/23 13:00
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56499	06/28/23 15:25	CH	EET MID

Client Sample ID: S-8 0-1'
Date Collected: 06/27/23 13:10
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 03:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56499	06/28/23 15:31	CH	EET MID

Client Sample ID: S-9 0-1'
Date Collected: 06/27/23 13:20
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 03:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 01:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	56499	06/28/23 15:49	CH	EET MID

Client Sample ID: S-9 2'
Date Collected: 06/27/23 13:25
Date Received: 06/28/23 10:13

Lab Sample ID: 880-30102-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56491	06/28/23 10:58	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56449	06/29/23 03:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56563	06/29/23 10:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			56546	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	56502	06/28/23 13:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/29/23 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56486	06/28/23 10:39	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	56499	06/28/23 15:55	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-30102-1
Project/Site: Chamaeleon State SDG: 23-0102-05

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State

Job ID: 880-30102-1
SDG: 23-0102-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30102-1	S-1 0-1'	Solid	06/27/23 12:00	06/28/23 10:13
880-30102-2	S-2 0-1'	Solid	06/27/23 12:10	06/28/23 10:13
880-30102-3	S-3 0-1'	Solid	06/27/23 12:20	06/28/23 10:13
880-30102-4	S-4 0-0.5'	Solid	06/27/23 12:30	06/28/23 10:13
880-30102-5	S-5 0-1'	Solid	06/27/23 12:40	06/28/23 10:13
880-30102-6	S-6 0-0.5'	Solid	06/27/23 12:50	06/28/23 10:13
880-30102-7	S-7 0-1'	Solid	06/27/23 13:00	06/28/23 10:13
880-30102-8	S-8 0-1'	Solid	06/27/23 13:10	06/28/23 10:13
880-30102-9	S-9 0-1'	Solid	06/27/23 13:20	06/28/23 10:13
880-30102-10	S-9 2'	Solid	06/27/23 13:25	06/28/23 10:13

No. 3091

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to 30102

DATE 6-27-23 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Chameleon State

LAI PROJECT # 23-0102-05 COLLECTOR KG & HW

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-1, 0-1'		6-27-23	1200	S	1				X		X	
S-2, 0-1'			1210								X	
S-3, 0-1'			1220								X	
S-4, 0-.5'			1230								X	
S-5, 0-1'			1240									
S-6, 0-.5'			1250									
S-7, 0-1'			1300									
S-8, 0-1'			1310									
S-9, 0-1'			1320									
S-9, 2'			1325									

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ | TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ | PAH 8270 ☐ | HOLDPAH ☐ | 8081 PESTICIDES ☐ | 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ | TCLP VOC ☐ | TCLP - PEST ☐ | HERB ☐ | Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ | OTHER LIST ☐ | LEAD - TOTAL ☐ | D W 200 8 ☐ | TCLP ☐ | RCI ☐ | TOX ☐ | FLASHPOINT ☐ | TDS ☐ | TSS ☐ | % MOISTURE ☐ | CYANIDE ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ | PECHLORATE ☐ | CHLORIDES ☐ | ANIONS ☐ | ALKALINITY ☐

880-30102 Chain of Custody

TOTAL 10

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
Daniel Stumm	6/28/23	[illegible]	6/28/23 1013
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
LABORATORY Xenco			

TURN AROUND TIME
NORMAL ☐
1 DAY ☒
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 19/1.6 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-30102-1
SDG Number: 23-0102-05

Login Number: 30102
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 8/9/2023 9:53:43 AM

JOB DESCRIPTION

Chamaelon State Com Battery
SDG NUMBER 23-0102-05

JOB NUMBER

880-31231-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
8/9/2023 9:53:43 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Laboratory Job ID: 880-31231-1
SDG: 23-0102-05

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Job ID: 880-31231-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31231-1

Receipt
The samples were received on 7/26/2023 10:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-59171/2), (CCV 880-59171/20), (LCS 880-58968/1-A), (LCSD 880-58968/2-A) and (MB 880-58968/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-4, 1' (880-31231-1), S-4, 3' (880-31231-2), S-4, 5' (880-31231-3), S-4, 10' (880-31231-4), S-2, 1' (880-31231-5), S-2, 3' (880-31231-6), S-2, 5' (880-31231-7), S-3, 1' (880-31231-8), S-3, 3' (880-31231-9), S-3, 5' (880-31231-10), (880-31231-A-1-D MS) and (880-31231-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-59171/33). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5, 1' (880-31231-11), S-5, 3' (880-31231-12), S-5, 5' (880-31231-13), S-6, 1' (880-31231-14), S-6, 3' (880-31231-15), S-6, 5' (880-31231-16), S-9, 1' (880-31231-17), S-9, 3' (880-31231-18), S-9, 5' (880-31231-19) and S-9, 8' (880-31231-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59532 and analytical batch 880-59596 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-4, 1' (880-31231-1), S-4, 3' (880-31231-2), S-4, 5' (880-31231-3), S-4, 10' (880-31231-4), S-2, 1' (880-31231-5), S-2, 3' (880-31231-6), S-2, 5' (880-31231-7), S-3, 1' (880-31231-8), S-3, 3' (880-31231-9), S-3, 5' (880-31231-10), S-5, 1' (880-31231-11), S-5, 3' (880-31231-12), S-5, 5' (880-31231-13), S-6, 1' (880-31231-14), S-6, 3' (880-31231-15), S-6, 5' (880-31231-16), S-9, 1' (880-31231-17), S-9, 3' (880-31231-18), S-9, 5' (880-31231-19), (CCV 880-59596/20), (CCV 880-59596/31), (CCV 880-59596/5), (LCS 880-59532/2-A), (LCSD 880-59532/3-A), (880-31231-A-1-H MS) and (880-31231-A-1-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59532 and analytical batch 880-59596 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-4, 1'
Lab Sample ID: 880-31231-1
Date Collected: 07/25/23 08:55 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 12:35*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/01/23 08:52*	*08/03/23 12:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 10:25	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		08/07/23 14:23	08/08/23 10:25	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*163*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 10:25*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 10:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		4.99		mg/Kg			07/28/23 21:54	1

Client Sample ID: S-4, 3'
Lab Sample ID: 880-31231-2
Date Collected: 07/25/23 08:57 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 13:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 13:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 13:01	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 13:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 13:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 13:01*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/01/23 08:52*	*08/03/23 13:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-4, 3'
Lab Sample ID: 880-31231-2
Date Collected: 07/25/23 08:57 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 11:32	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 11:32	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*159*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 11:32*	*1*
o-Terphenyl (Surr)	*145*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 11:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.1**		5.00		mg/Kg			07/28/23 22:10	1

Client Sample ID: S-4, 5'
Lab Sample ID: 880-31231-3
Date Collected: 07/25/23 08:59 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 13:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 13:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 13:26	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 13:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 13:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 13:26*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*08/01/23 08:52*	*08/03/23 13:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 11:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 11:55	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-4, 5'
Lab Sample ID: 880-31231-3
Date Collected: 07/25/23 08:59 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*165*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 11:55*	*1*
o-Terphenyl (Surr)	*155*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 11:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		4.96		mg/Kg			07/28/23 22:16	1

Client Sample ID: S-4, 10'
Lab Sample ID: 880-31231-4
Date Collected: 07/25/23 09:03 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 13:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 13:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*51*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 13:52*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*08/01/23 08:52*	*08/03/23 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/23 14:23	08/08/23 12:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/23 14:23	08/08/23 12:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/23 14:23	08/08/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 12:17*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 12:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**563**		5.01		mg/Kg			07/28/23 22:21	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-2, 1'
Lab Sample ID: 880-31231-5
Date Collected: 07/25/23 09:07 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 14:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 14:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*08/01/23 08:52*	*08/03/23 14:18*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*08/01/23 08:52*	*08/03/23 14:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.3**		50.0		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/23 14:23	08/08/23 12:39	1
Diesel Range Organics (Over C10-C28)	**53.3**		50.0		mg/Kg		08/07/23 14:23	08/08/23 12:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/23 14:23	08/08/23 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*171*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 12:39*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 12:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		25.0		mg/Kg			07/29/23 11:47	5

Client Sample ID: S-2, 3'
Lab Sample ID: 880-31231-6
Date Collected: 07/25/23 09:12 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 14:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 14:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 14:44	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		08/01/23 08:52	08/03/23 14:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 14:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/01/23 08:52	08/03/23 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 14:44*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/01/23 08:52*	*08/03/23 14:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-2, 3'

Date Collected: 07/25/23 09:12
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/07/23 14:23	08/08/23 13:02	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/07/23 14:23	08/08/23 13:02	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/07/23 14:23	08/08/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*164*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:02*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.2**		4.95		mg/Kg			07/28/23 22:42	1

Client Sample ID: S-2, 5'

Date Collected: 07/25/23 09:15
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 15:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 15:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 15:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		08/01/23 08:52	08/03/23 15:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 15:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/01/23 08:52	08/03/23 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 15:10*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*08/01/23 08:52*	*08/03/23 15:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 13:24	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 13:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-2, 5'

Date Collected: 07/25/23 09:15
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*180*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:24*	*1*
o-Terphenyl (Surr)	*168*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		4.97		mg/Kg			07/28/23 22:48	1

Client Sample ID: S-3, 1'

Date Collected: 07/25/23 09:45
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 16:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 16:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 16:09	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 16:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 16:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 16:09*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/01/23 08:52*	*08/03/23 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 13:46	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 13:46	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*158*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:46*	*1*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 13:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**458**		5.00		mg/Kg			07/28/23 22:53	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-3, 3'
Lab Sample ID: 880-31231-9
Date Collected: 07/25/23 09:50 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 16:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 16:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 16:34	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/01/23 08:52	08/03/23 16:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 16:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/01/23 08:52	08/03/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 16:34*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/01/23 08:52*	*08/03/23 16:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 14:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 14:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*169*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 14:09*	*1*
o-Terphenyl (Surr)	*160*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 14:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.5**		4.96		mg/Kg			07/28/23 22:58	1

Client Sample ID: S-3, 5'
Lab Sample ID: 880-31231-10
Date Collected: 07/25/23 09:55 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 17:00	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 17:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 17:00*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*08/01/23 08:52*	*08/03/23 17:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-3, 5'

Date Collected: 07/25/23 09:55
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/03/23 20:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 14:31	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 14:31	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*164*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 14:31*	*1*
o-Terphenyl (Surr)	*157*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 14:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**235**		5.04		mg/Kg			07/28/23 23:04	1

Client Sample ID: S-5, 1'

Date Collected: 07/25/23 10:20
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 18:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 18:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 18:44	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 18:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 18:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 18:44*	*1*
1,4-Difluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*08/01/23 08:52*	*08/03/23 18:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 15:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 15:16	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-5, 1'
Lab Sample ID: 880-31231-11
Date Collected: 07/25/23 10:20 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/23 14:23	08/08/23 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 15:16*	*1*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 15:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		4.99		mg/Kg			07/28/23 23:09	1

Client Sample ID: S-5, 3'
Lab Sample ID: 880-31231-12
Date Collected: 07/25/23 10:25 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 19:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*55*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 19:09*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/01/23 08:52*	*08/03/23 19:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 15:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 15:38	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 15:38*	*1*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 15:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.9**		4.95		mg/Kg			07/28/23 23:25	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-5, 5'
Lab Sample ID: 880-31231-13
Date Collected: 07/25/23 10:30 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 19:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 19:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 19:35	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 19:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 19:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 19:35*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*08/01/23 08:52*	*08/03/23 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/07/23 14:23	08/08/23 16:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/07/23 14:23	08/08/23 16:06	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/07/23 14:23	08/08/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 16:06*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*08/07/23 14:23*	*08/08/23 16:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.4**		5.01		mg/Kg			07/28/23 23:31	1

Client Sample ID: S-6, 1'
Lab Sample ID: 880-31231-14
Date Collected: 07/25/23 10:50 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 20:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 20:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 20:00	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		08/01/23 08:52	08/03/23 20:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 08:52	08/03/23 20:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/01/23 08:52	08/03/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 20:00*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*08/01/23 08:52*	*08/03/23 20:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-6, 1'

Date Collected: 07/25/23 10:50
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 16:28	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 16:28	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*169*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 16:28*	*1*
o-Terphenyl (Surr)	*158*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 16:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		4.97		mg/Kg			07/28/23 23:47	1

Client Sample ID: S-6, 3'

Date Collected: 07/25/23 10:55
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-15

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 20:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 20:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 20:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 20:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 20:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 20:26*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*08/01/23 08:52*	*08/03/23 20:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 16:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 16:50	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-6, 3'
Lab Sample ID: 880-31231-15
Date Collected: 07/25/23 10:55 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/07/23 14:23	08/08/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*159*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 16:50*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 16:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		4.95		mg/Kg			07/28/23 23:53	1

Client Sample ID: S-6, 5'
Lab Sample ID: 880-31231-16
Date Collected: 07/25/23 11:00 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 20:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 20:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 20:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 20:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 20:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/23 08:52	08/03/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*52*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 20:51*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/01/23 08:52*	*08/03/23 20:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 17:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 17:12	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/23 14:23	08/08/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*154*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:12*	*1*
o-Terphenyl (Surr)	*145*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		4.95		mg/Kg			07/28/23 23:58	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-9, 1'
Lab Sample ID: 880-31231-17
Date Collected: 07/25/23 11:25 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 21:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 21:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 21:17	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 21:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 08:52	08/03/23 21:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 08:52	08/03/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 21:17*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/01/23 08:52*	*08/03/23 21:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:35	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*154*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:35*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**839**		5.01		mg/Kg			07/29/23 00:03	1

Client Sample ID: S-9, 3'
Lab Sample ID: 880-31231-18
Date Collected: 07/25/23 11:30 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 21:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 21:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 21:42	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 21:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 08:52	08/03/23 21:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 08:52	08/03/23 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 21:42*	*1*
1,4-Difluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*08/01/23 08:52*	*08/03/23 21:42*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-9, 3'

Date Collected: 07/25/23 11:30
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:57	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:57	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/07/23 14:23	08/08/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*153*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:57*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		5.05		mg/Kg			07/29/23 00:09	1

Client Sample ID: S-9, 5'

Date Collected: 07/25/23 11:35
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 22:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 22:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 22:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 22:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 22:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/23 08:52	08/03/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 22:07*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/01/23 08:52*	*08/03/23 22:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 18:19	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 18:19	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-9, 5'
Lab Sample ID: 880-31231-19
Date Collected: 07/25/23 11:35 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/07/23 14:23	08/08/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*155*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 18:19*	*1*
o-Terphenyl (Surr)	*149*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**665**		4.98		mg/Kg			07/29/23 00:14	1

Client Sample ID: S-9, 8'
Lab Sample ID: 880-31231-20
Date Collected: 07/25/23 11:40 **Matrix: Solid**
Date Received: 07/26/23 10:31

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 22:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 22:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 22:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 22:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 08:52	08/03/23 22:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 08:52	08/03/23 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 22:33*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/01/23 08:52*	*08/03/23 22:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/04/23 10:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 18:41	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 18:41	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/07/23 14:23	08/08/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*08/07/23 14:23*	*08/08/23 18:41*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*08/07/23 14:23*	*08/08/23 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**453**		4.96		mg/Kg			07/29/23 00:19	1

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-31231-1	S-4, 1'	51 S1-	111
880-31231-1 MS	S-4, 1'	59 S1-	126
880-31231-1 MSD	S-4, 1'	55 S1-	105
880-31231-2	S-4, 3'	58 S1-	126
880-31231-3	S-4, 5'	66 S1-	126
880-31231-4	S-4, 10'	51 S1-	115
880-31231-5	S-2, 1'	72	144 S1+
880-31231-6	S-2, 3'	63 S1-	135 S1+
880-31231-7	S-2, 5'	63 S1-	129
880-31231-8	S-3, 1'	66 S1-	116
880-31231-9	S-3, 3'	59 S1-	120
880-31231-10	S-3, 5'	58 S1-	122
880-31231-11	S-5, 1'	68 S1-	137 S1+
880-31231-12	S-5, 3'	55 S1-	119
880-31231-13	S-5, 5'	59 S1-	129
880-31231-14	S-6, 1'	58 S1-	127
880-31231-15	S-6, 3'	63 S1-	130
880-31231-16	S-6, 5'	52 S1-	125
880-31231-17	S-9, 1'	57 S1-	112
880-31231-18	S-9, 3'	61 S1-	140 S1+
880-31231-19	S-9, 5'	62 S1-	120
880-31231-20	S-9, 8'	58 S1-	116
LCS 880-58968/1-A	Lab Control Sample	53 S1-	95
LCSD 880-58968/2-A	Lab Control Sample Dup	58 S1-	121
MB 880-58968/5-A	Method Blank	33 S1-	123

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31231-1	S-4, 1'	163 S1+	142 S1+
880-31231-1 MS	S-4, 1'	152 S1+	116
880-31231-1 MSD	S-4, 1'	153 S1+	114
880-31231-2	S-4, 3'	159 S1+	145 S1+
880-31231-3	S-4, 5'	165 S1+	155 S1+
880-31231-4	S-4, 10'	156 S1+	148 S1+
880-31231-5	S-2, 1'	171 S1+	156 S1+
880-31231-6	S-2, 3'	164 S1+	148 S1+
880-31231-7	S-2, 5'	180 S1+	168 S1+
880-31231-8	S-3, 1'	158 S1+	148 S1+
880-31231-9	S-3, 3'	169 S1+	160 S1+
880-31231-10	S-3, 5'	164 S1+	157 S1+
880-31231-11	S-5, 1'	156 S1+	138 S1+
880-31231-12	S-5, 3'	156 S1+	144 S1+

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31231-13	S-5, 5'	136 S1+	126										
880-31231-14	S-6, 1'	169 S1+	158 S1+										
880-31231-15	S-6, 3'	159 S1+	142 S1+										
880-31231-16	S-6, 5'	154 S1+	145 S1+										
880-31231-17	S-9, 1'	154 S1+	141 S1+										
880-31231-18	S-9, 3'	153 S1+	142 S1+										
880-31231-19	S-9, 5'	155 S1+	149 S1+										
880-31231-20	S-9, 8'	119	113										
LCS 880-59532/2-A	Lab Control Sample	151 S1+	141 S1+										
LCSD 880-59532/3-A	Lab Control Sample Dup	161 S1+	151 S1+										
MB 880-59532/1-A	Method Blank	183 S1+	179 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58968/5-A
Matrix: Solid
Analysis Batch: 59171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 58968

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/01/23 08:52	08/03/23 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 08:52	08/03/23 12:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 08:52	08/03/23 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*33*	*S1-*	*70 - 130*	*08/01/23 08:52*	*08/03/23 12:09*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*08/01/23 08:52*	*08/03/23 12:09*	*1*

Lab Sample ID: LCS 880-58968/1-A
Matrix: Solid
Analysis Batch: 59171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 58968

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1009		mg/Kg		101	70 - 130		
Toluene			0.100	0.09686		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09913		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.2102		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.09860		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*53*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-58968/2-A
Matrix: Solid
Analysis Batch: 59171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 58968

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0996	0.1219		mg/Kg		122	70 - 130	19	35
Toluene			0.0996	0.1207		mg/Kg		121	70 - 130	22	35
Ethylbenzene			0.0996	0.1208		mg/Kg		121	70 - 130	20	35
m,p-Xylenes			0.199	0.2518		mg/Kg		126	70 - 130	18	35
o-Xylene			0.0996	0.1161		mg/Kg		117	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*58*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

Lab Sample ID: 880-31231-1 MS
Matrix: Solid
Analysis Batch: 59171

Client Sample ID: S-4, 1'
Prep Type: Total/NA
Prep Batch: 58968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0994	0.1181		mg/Kg		119	70 - 130		
Toluene	<0.00200	U	0.0994	0.1054		mg/Kg		106	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-31231-1 MS **Client Sample ID: S-4, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59171 **Prep Batch: 58968**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0994	0.1054		mg/Kg		105	70 - 130
m,p-Xylenes	<0.00399	U	0.199	0.2130		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.0994	0.1011		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*

Lab Sample ID: 880-31231-1 MSD **Client Sample ID: S-4, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59171 **Prep Batch: 58968**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08647		mg/Kg		86	70 - 130	31	35
Toluene	<0.00200	U	0.100	0.08851		mg/Kg		89	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.100	0.08073		mg/Kg		80	70 - 130	26	35
m,p-Xylenes	<0.00399	U	0.200	0.1693		mg/Kg		85	70 - 130	23	35
o-Xylene	<0.00200	U	0.100	0.07997		mg/Kg		80	70 - 130	23	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*55*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-59532/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/07/23 14:23	08/08/23 07:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/07/23 14:23	08/08/23 07:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/07/23 14:23	08/08/23 07:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*183*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 07:49*	*1*
o-Terphenyl (Surr)	*179*	*S1+*	*70 - 130*	*08/07/23 14:23*	*08/08/23 07:49*	*1*

Lab Sample ID: LCS 880-59532/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	983.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	832.6		mg/Kg		83	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-59532/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	151	S1+	70 - 130
o-Terphenyl (Surr)	141	S1+	70 - 130

Lab Sample ID: LCSD 880-59532/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	959.4		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	824.1		mg/Kg		82	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	161	S1+	70 - 130
o-Terphenyl (Surr)	151	S1+	70 - 130

Lab Sample ID: 880-31231-1 MS **Client Sample ID: S-4, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	996	1003		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1460	F1	mg/Kg		144	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	152	S1+	70 - 130
o-Terphenyl (Surr)	116		70 - 130

Lab Sample ID: 880-31231-1 MSD **Client Sample ID: S-4, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59532**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	996	1002		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1449	F1	mg/Kg		143	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	153	S1+	70 - 130
o-Terphenyl (Surr)	114		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58562/1-A
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/28/23 21:38	1

Lab Sample ID: LCS 880-58562/2-A
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-58562/3-A
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.3		mg/Kg		105	90 - 110	5	20

Lab Sample ID: 880-31231-1 MS
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: S-4, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	305		250	572.0		mg/Kg		107	90 - 110		

Lab Sample ID: 880-31231-1 MSD
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: S-4, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	305		250	574.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-31231-11 MS
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: S-5, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	140		250	406.4		mg/Kg		107	90 - 110		

Lab Sample ID: 880-31231-11 MSD
Matrix: Solid
Analysis Batch: 58742

Client Sample ID: S-5, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140		250	405.4		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

GC VOA

Prep Batch: 58968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	5035	
880-31231-2	S-4, 3'	Total/NA	Solid	5035	
880-31231-3	S-4, 5'	Total/NA	Solid	5035	
880-31231-4	S-4, 10'	Total/NA	Solid	5035	
880-31231-5	S-2, 1'	Total/NA	Solid	5035	
880-31231-6	S-2, 3'	Total/NA	Solid	5035	
880-31231-7	S-2, 5'	Total/NA	Solid	5035	
880-31231-8	S-3, 1'	Total/NA	Solid	5035	
880-31231-9	S-3, 3'	Total/NA	Solid	5035	
880-31231-10	S-3, 5'	Total/NA	Solid	5035	
880-31231-11	S-5, 1'	Total/NA	Solid	5035	
880-31231-12	S-5, 3'	Total/NA	Solid	5035	
880-31231-13	S-5, 5'	Total/NA	Solid	5035	
880-31231-14	S-6, 1'	Total/NA	Solid	5035	
880-31231-15	S-6, 3'	Total/NA	Solid	5035	
880-31231-16	S-6, 5'	Total/NA	Solid	5035	
880-31231-17	S-9, 1'	Total/NA	Solid	5035	
880-31231-18	S-9, 3'	Total/NA	Solid	5035	
880-31231-19	S-9, 5'	Total/NA	Solid	5035	
880-31231-20	S-9, 8'	Total/NA	Solid	5035	
MB 880-58968/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58968/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58968/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31231-1 MS	S-4, 1'	Total/NA	Solid	5035	
880-31231-1 MSD	S-4, 1'	Total/NA	Solid	5035	

Analysis Batch: 59171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	8021B	58968
880-31231-2	S-4, 3'	Total/NA	Solid	8021B	58968
880-31231-3	S-4, 5'	Total/NA	Solid	8021B	58968
880-31231-4	S-4, 10'	Total/NA	Solid	8021B	58968
880-31231-5	S-2, 1'	Total/NA	Solid	8021B	58968
880-31231-6	S-2, 3'	Total/NA	Solid	8021B	58968
880-31231-7	S-2, 5'	Total/NA	Solid	8021B	58968
880-31231-8	S-3, 1'	Total/NA	Solid	8021B	58968
880-31231-9	S-3, 3'	Total/NA	Solid	8021B	58968
880-31231-10	S-3, 5'	Total/NA	Solid	8021B	58968
880-31231-11	S-5, 1'	Total/NA	Solid	8021B	58968
880-31231-12	S-5, 3'	Total/NA	Solid	8021B	58968
880-31231-13	S-5, 5'	Total/NA	Solid	8021B	58968
880-31231-14	S-6, 1'	Total/NA	Solid	8021B	58968
880-31231-15	S-6, 3'	Total/NA	Solid	8021B	58968
880-31231-16	S-6, 5'	Total/NA	Solid	8021B	58968
880-31231-17	S-9, 1'	Total/NA	Solid	8021B	58968
880-31231-18	S-9, 3'	Total/NA	Solid	8021B	58968
880-31231-19	S-9, 5'	Total/NA	Solid	8021B	58968
880-31231-20	S-9, 8'	Total/NA	Solid	8021B	58968
MB 880-58968/5-A	Method Blank	Total/NA	Solid	8021B	58968
LCS 880-58968/1-A	Lab Control Sample	Total/NA	Solid	8021B	58968
LCSD 880-58968/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58968

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

GC VOA (Continued)

Analysis Batch: 59171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1 MS	S-4, 1'	Total/NA	Solid	8021B	58968
880-31231-1 MSD	S-4, 1'	Total/NA	Solid	8021B	58968

Analysis Batch: 59278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	Total BTEX	
880-31231-2	S-4, 3'	Total/NA	Solid	Total BTEX	
880-31231-3	S-4, 5'	Total/NA	Solid	Total BTEX	
880-31231-4	S-4, 10'	Total/NA	Solid	Total BTEX	
880-31231-5	S-2, 1'	Total/NA	Solid	Total BTEX	
880-31231-6	S-2, 3'	Total/NA	Solid	Total BTEX	
880-31231-7	S-2, 5'	Total/NA	Solid	Total BTEX	
880-31231-8	S-3, 1'	Total/NA	Solid	Total BTEX	
880-31231-9	S-3, 3'	Total/NA	Solid	Total BTEX	
880-31231-10	S-3, 5'	Total/NA	Solid	Total BTEX	
880-31231-11	S-5, 1'	Total/NA	Solid	Total BTEX	
880-31231-12	S-5, 3'	Total/NA	Solid	Total BTEX	
880-31231-13	S-5, 5'	Total/NA	Solid	Total BTEX	
880-31231-14	S-6, 1'	Total/NA	Solid	Total BTEX	
880-31231-15	S-6, 3'	Total/NA	Solid	Total BTEX	
880-31231-16	S-6, 5'	Total/NA	Solid	Total BTEX	
880-31231-17	S-9, 1'	Total/NA	Solid	Total BTEX	
880-31231-18	S-9, 3'	Total/NA	Solid	Total BTEX	
880-31231-19	S-9, 5'	Total/NA	Solid	Total BTEX	
880-31231-20	S-9, 8'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	8015NM Prep	
880-31231-2	S-4, 3'	Total/NA	Solid	8015NM Prep	
880-31231-3	S-4, 5'	Total/NA	Solid	8015NM Prep	
880-31231-4	S-4, 10'	Total/NA	Solid	8015NM Prep	
880-31231-5	S-2, 1'	Total/NA	Solid	8015NM Prep	
880-31231-6	S-2, 3'	Total/NA	Solid	8015NM Prep	
880-31231-7	S-2, 5'	Total/NA	Solid	8015NM Prep	
880-31231-8	S-3, 1'	Total/NA	Solid	8015NM Prep	
880-31231-9	S-3, 3'	Total/NA	Solid	8015NM Prep	
880-31231-10	S-3, 5'	Total/NA	Solid	8015NM Prep	
880-31231-11	S-5, 1'	Total/NA	Solid	8015NM Prep	
880-31231-12	S-5, 3'	Total/NA	Solid	8015NM Prep	
880-31231-13	S-5, 5'	Total/NA	Solid	8015NM Prep	
880-31231-14	S-6, 1'	Total/NA	Solid	8015NM Prep	
880-31231-15	S-6, 3'	Total/NA	Solid	8015NM Prep	
880-31231-16	S-6, 5'	Total/NA	Solid	8015NM Prep	
880-31231-17	S-9, 1'	Total/NA	Solid	8015NM Prep	
880-31231-18	S-9, 3'	Total/NA	Solid	8015NM Prep	
880-31231-19	S-9, 5'	Total/NA	Solid	8015NM Prep	
880-31231-20	S-9, 8'	Total/NA	Solid	8015NM Prep	
MB 880-59532/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

GC Semi VOA (Continued)

Prep Batch: 59532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-59532/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31231-1 MS	S-4, 1'	Total/NA	Solid	8015NM Prep	
880-31231-1 MSD	S-4, 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	8015B NM	59532
880-31231-2	S-4, 3'	Total/NA	Solid	8015B NM	59532
880-31231-3	S-4, 5'	Total/NA	Solid	8015B NM	59532
880-31231-4	S-4, 10'	Total/NA	Solid	8015B NM	59532
880-31231-5	S-2, 1'	Total/NA	Solid	8015B NM	59532
880-31231-6	S-2, 3'	Total/NA	Solid	8015B NM	59532
880-31231-7	S-2, 5'	Total/NA	Solid	8015B NM	59532
880-31231-8	S-3, 1'	Total/NA	Solid	8015B NM	59532
880-31231-9	S-3, 3'	Total/NA	Solid	8015B NM	59532
880-31231-10	S-3, 5'	Total/NA	Solid	8015B NM	59532
880-31231-11	S-5, 1'	Total/NA	Solid	8015B NM	59532
880-31231-12	S-5, 3'	Total/NA	Solid	8015B NM	59532
880-31231-13	S-5, 5'	Total/NA	Solid	8015B NM	59532
880-31231-14	S-6, 1'	Total/NA	Solid	8015B NM	59532
880-31231-15	S-6, 3'	Total/NA	Solid	8015B NM	59532
880-31231-16	S-6, 5'	Total/NA	Solid	8015B NM	59532
880-31231-17	S-9, 1'	Total/NA	Solid	8015B NM	59532
880-31231-18	S-9, 3'	Total/NA	Solid	8015B NM	59532
880-31231-19	S-9, 5'	Total/NA	Solid	8015B NM	59532
880-31231-20	S-9, 8'	Total/NA	Solid	8015B NM	59532
MB 880-59532/1-A	Method Blank	Total/NA	Solid	8015B NM	59532
LCS 880-59532/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59532
LCSD 880-59532/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59532
880-31231-1 MS	S-4, 1'	Total/NA	Solid	8015B NM	59532
880-31231-1 MSD	S-4, 1'	Total/NA	Solid	8015B NM	59532

Analysis Batch: 59739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Total/NA	Solid	8015 NM	
880-31231-2	S-4, 3'	Total/NA	Solid	8015 NM	
880-31231-3	S-4, 5'	Total/NA	Solid	8015 NM	
880-31231-4	S-4, 10'	Total/NA	Solid	8015 NM	
880-31231-5	S-2, 1'	Total/NA	Solid	8015 NM	
880-31231-6	S-2, 3'	Total/NA	Solid	8015 NM	
880-31231-7	S-2, 5'	Total/NA	Solid	8015 NM	
880-31231-8	S-3, 1'	Total/NA	Solid	8015 NM	
880-31231-9	S-3, 3'	Total/NA	Solid	8015 NM	
880-31231-10	S-3, 5'	Total/NA	Solid	8015 NM	
880-31231-11	S-5, 1'	Total/NA	Solid	8015 NM	
880-31231-12	S-5, 3'	Total/NA	Solid	8015 NM	
880-31231-13	S-5, 5'	Total/NA	Solid	8015 NM	
880-31231-14	S-6, 1'	Total/NA	Solid	8015 NM	
880-31231-15	S-6, 3'	Total/NA	Solid	8015 NM	
880-31231-16	S-6, 5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

GC Semi VOA (Continued)

Analysis Batch: 59739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-17	S-9, 1'	Total/NA	Solid	8015 NM	
880-31231-18	S-9, 3'	Total/NA	Solid	8015 NM	
880-31231-19	S-9, 5'	Total/NA	Solid	8015 NM	
880-31231-20	S-9, 8'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Soluble	Solid	DI Leach	
880-31231-2	S-4, 3'	Soluble	Solid	DI Leach	
880-31231-3	S-4, 5'	Soluble	Solid	DI Leach	
880-31231-4	S-4, 10'	Soluble	Solid	DI Leach	
880-31231-5	S-2, 1'	Soluble	Solid	DI Leach	
880-31231-6	S-2, 3'	Soluble	Solid	DI Leach	
880-31231-7	S-2, 5'	Soluble	Solid	DI Leach	
880-31231-8	S-3, 1'	Soluble	Solid	DI Leach	
880-31231-9	S-3, 3'	Soluble	Solid	DI Leach	
880-31231-10	S-3, 5'	Soluble	Solid	DI Leach	
880-31231-11	S-5, 1'	Soluble	Solid	DI Leach	
880-31231-12	S-5, 3'	Soluble	Solid	DI Leach	
880-31231-13	S-5, 5'	Soluble	Solid	DI Leach	
880-31231-14	S-6, 1'	Soluble	Solid	DI Leach	
880-31231-15	S-6, 3'	Soluble	Solid	DI Leach	
880-31231-16	S-6, 5'	Soluble	Solid	DI Leach	
880-31231-17	S-9, 1'	Soluble	Solid	DI Leach	
880-31231-18	S-9, 3'	Soluble	Solid	DI Leach	
880-31231-19	S-9, 5'	Soluble	Solid	DI Leach	
880-31231-20	S-9, 8'	Soluble	Solid	DI Leach	
MB 880-58562/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58562/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58562/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31231-1 MS	S-4, 1'	Soluble	Solid	DI Leach	
880-31231-1 MSD	S-4, 1'	Soluble	Solid	DI Leach	
880-31231-11 MS	S-5, 1'	Soluble	Solid	DI Leach	
880-31231-11 MSD	S-5, 1'	Soluble	Solid	DI Leach	

Analysis Batch: 58742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-1	S-4, 1'	Soluble	Solid	300.0	58562
880-31231-2	S-4, 3'	Soluble	Solid	300.0	58562
880-31231-3	S-4, 5'	Soluble	Solid	300.0	58562
880-31231-4	S-4, 10'	Soluble	Solid	300.0	58562
880-31231-5	S-2, 1'	Soluble	Solid	300.0	58562
880-31231-6	S-2, 3'	Soluble	Solid	300.0	58562
880-31231-7	S-2, 5'	Soluble	Solid	300.0	58562
880-31231-8	S-3, 1'	Soluble	Solid	300.0	58562
880-31231-9	S-3, 3'	Soluble	Solid	300.0	58562
880-31231-10	S-3, 5'	Soluble	Solid	300.0	58562
880-31231-11	S-5, 1'	Soluble	Solid	300.0	58562
880-31231-12	S-5, 3'	Soluble	Solid	300.0	58562

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

HPLC/IC (Continued)

Analysis Batch: 58742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31231-13	S-5, 5'	Soluble	Solid	300.0	58562
880-31231-14	S-6, 1'	Soluble	Solid	300.0	58562
880-31231-15	S-6, 3'	Soluble	Solid	300.0	58562
880-31231-16	S-6, 5'	Soluble	Solid	300.0	58562
880-31231-17	S-9, 1'	Soluble	Solid	300.0	58562
880-31231-18	S-9, 3'	Soluble	Solid	300.0	58562
880-31231-19	S-9, 5'	Soluble	Solid	300.0	58562
880-31231-20	S-9, 8'	Soluble	Solid	300.0	58562
MB 880-58562/1-A	Method Blank	Soluble	Solid	300.0	58562
LCS 880-58562/2-A	Lab Control Sample	Soluble	Solid	300.0	58562
LCSD 880-58562/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58562
880-31231-1 MS	S-4, 1'	Soluble	Solid	300.0	58562
880-31231-1 MSD	S-4, 1'	Soluble	Solid	300.0	58562
880-31231-11 MS	S-5, 1'	Soluble	Solid	300.0	58562
880-31231-11 MSD	S-5, 1'	Soluble	Solid	300.0	58562

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-4, 1'
Lab Sample ID: 880-31231-1
Date Collected: 07/25/23 08:55 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 12:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 10:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 21:54	CH	EET MID

Client Sample ID: S-4, 3'
Lab Sample ID: 880-31231-2
Date Collected: 07/25/23 08:57 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 13:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 11:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:10	CH	EET MID

Client Sample ID: S-4, 5'
Lab Sample ID: 880-31231-3
Date Collected: 07/25/23 08:59 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 13:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 11:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:16	CH	EET MID

Client Sample ID: S-4, 10'
Lab Sample ID: 880-31231-4
Date Collected: 07/25/23 09:03 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 13:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-4, 10' Lab Sample ID: 880-31231-4

Date Collected: 07/25/23 09:03 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 12:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:21	CH	EET MID

Client Sample ID: S-2, 1' Lab Sample ID: 880-31231-5

Date Collected: 07/25/23 09:07 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 14:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 12:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		5			58742	07/29/23 11:47	CH	EET MID

Client Sample ID: S-2, 3' Lab Sample ID: 880-31231-6

Date Collected: 07/25/23 09:12 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 14:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:42	CH	EET MID

Client Sample ID: S-2, 5' Lab Sample ID: 880-31231-7

Date Collected: 07/25/23 09:15 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 15:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 13:24	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Client Sample ID: S-2, 5'
Lab Sample ID: 880-31231-7
Date Collected: 07/25/23 09:15 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:48	CH	EET MID

Client Sample ID: S-3, 1'
Lab Sample ID: 880-31231-8
Date Collected: 07/25/23 09:45 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 16:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:53	CH	EET MID

Client Sample ID: S-3, 3'
Lab Sample ID: 880-31231-9
Date Collected: 07/25/23 09:50 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 16:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 14:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 22:58	CH	EET MID

Client Sample ID: S-3, 5'
Lab Sample ID: 880-31231-10
Date Collected: 07/25/23 09:55 **Matrix: Solid**
Date Received: 07/26/23 10:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 17:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/03/23 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 14:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:04	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-5, 1'

Date Collected: 07/25/23 10:20
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 18:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 15:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:09	CH	EET MID

Client Sample ID: S-5, 3'

Date Collected: 07/25/23 10:25
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 19:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 15:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:25	CH	EET MID

Client Sample ID: S-5, 5'

Date Collected: 07/25/23 10:30
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 19:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 16:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:31	CH	EET MID

Client Sample ID: S-6, 1'

Date Collected: 07/25/23 10:50
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 20:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-6, 1'

Date Collected: 07/25/23 10:50
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 16:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:47	CH	EET MID

Client Sample ID: S-6, 3'

Date Collected: 07/25/23 10:55
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 20:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 16:50	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:53	CH	EET MID

Client Sample ID: S-6, 5'

Date Collected: 07/25/23 11:00
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 20:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 17:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/28/23 23:58	CH	EET MID

Client Sample ID: S-9, 1'

Date Collected: 07/25/23 11:25
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 21:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 17:35	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Client Sample ID: S-9, 1'

Date Collected: 07/25/23 11:25
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/29/23 00:03	CH	EET MID

Client Sample ID: S-9, 3'

Date Collected: 07/25/23 11:30
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 21:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/29/23 00:09	CH	EET MID

Client Sample ID: S-9, 5'

Date Collected: 07/25/23 11:35
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 22:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/29/23 00:14	CH	EET MID

Client Sample ID: S-9, 8'

Date Collected: 07/25/23 11:40
Date Received: 07/26/23 10:31

Lab Sample ID: 880-31231-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58968	08/01/23 08:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59171	08/03/23 22:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59278	08/04/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			59739	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59532	08/07/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/08/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58562	07/26/23 12:13	KS	EET MID
Soluble	Analysis	300.0		1			58742	07/29/23 00:19	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-31231-1
Project/Site: Chamaelon State Com Battery SDG: 23-0102-05

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon State Com Battery

Job ID: 880-31231-1
SDG: 23-0102-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31231-1	S-4, 1'	Solid	07/25/23 08:55	07/26/23 10:31
880-31231-2	S-4, 3'	Solid	07/25/23 08:57	07/26/23 10:31
880-31231-3	S-4, 5'	Solid	07/25/23 08:59	07/26/23 10:31
880-31231-4	S-4, 10'	Solid	07/25/23 09:03	07/26/23 10:31
880-31231-5	S-2, 1'	Solid	07/25/23 09:07	07/26/23 10:31
880-31231-6	S-2, 3'	Solid	07/25/23 09:12	07/26/23 10:31
880-31231-7	S-2, 5'	Solid	07/25/23 09:15	07/26/23 10:31
880-31231-8	S-3, 1'	Solid	07/25/23 09:45	07/26/23 10:31
880-31231-9	S-3, 3'	Solid	07/25/23 09:50	07/26/23 10:31
880-31231-10	S-3, 5'	Solid	07/25/23 09:55	07/26/23 10:31
880-31231-11	S-5, 1'	Solid	07/25/23 10:20	07/26/23 10:31
880-31231-12	S-5, 3'	Solid	07/25/23 10:25	07/26/23 10:31
880-31231-13	S-5, 5'	Solid	07/25/23 10:30	07/26/23 10:31
880-31231-14	S-6, 1'	Solid	07/25/23 10:50	07/26/23 10:31
880-31231-15	S-6, 3'	Solid	07/25/23 10:55	07/26/23 10:31
880-31231-16	S-6, 5'	Solid	07/25/23 11:00	07/26/23 10:31
880-31231-17	S-9, 1'	Solid	07/25/23 11:25	07/26/23 10:31
880-31231-18	S-9, 3'	Solid	07/25/23 11:30	07/26/23 10:31
880-31231-19	S-9, 5'	Solid	07/25/23 11:35	07/26/23 10:31
880-31231-20	S-9, 8'	Solid	07/25/23 11:40	07/26/23 10:31

31231

No. 3101

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE. 7/26/2023 PAGE 1 OF 2

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Chameleon State Com Battery

LAI PROJECT # 23-0102-05 COLLECTOR: MW/KL

TRRP report? ☐ Yes ☑ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-4, 1'		7/25/23	0855	S	1				X		X		X	X	X													X	
S-4, 3'			0857																										
S-4, 5'			0859																										
S-4, 10'			0903																										
S-2, 1'			0907																										
S-2, 3'			0912																										
S-2, 5'			0915																										
S-3, 1'			0945																										
S-3, 3'			0950																										
S-3, 5'			0955																										
S-5, 1'			1020																										
S-5, 3'			1025																										
S-5, 5'			1030																										
S-6, 1'			1050																										
S-6, 3'			1055																										
TOTAL																												

880-31231 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	7/26/23 1031	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 15|12 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

31231

No. 3102

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 7/26/2023 PAGE 2 OF 2

PO#. _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME. Chamaeleon State Com Battery

LAI PROJECT #: 23-C102-05 COLLECTOR MW/KL

Data Reported to:

TRRP report? ☐ Yes ☑ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State: MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-C 5'		7/25/23	1100	S	1				X		X			X	X	X												X		
S-9, 1'		"	1125	"	"				"		"			"	"	"												"		
S-9, 3'		"	1130	"	"				"		"			"	"	"												"		
S-9, 5'		"	1135	"	"				"		"			"	"	"												"		
S-9, 8'		"	1140	"	"				"		"			"	"	"												"		
TOTAL																														

Loc: 880
31231

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	7/26/23 1031	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 1.5/1.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31231-1
SDG Number: 23-0102-05

Login Number: 31231
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 8/9/2023 10:02:58 AM

JOB DESCRIPTION

Chamaeleon State Com Battery
SDG NUMBER 23-0102-05

JOB NUMBER

880-31400-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
8/9/2023 10:02:58 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State Com Battery

Laboratory Job ID: 880-31400-1
SDG: 23-0102-05

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Job ID: 880-31400-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31400-1

Receipt
The sample was received on 7/28/2023 2:27 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: S-11,0-1 (880-31400-1).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59296 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59296/33).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59296 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59296/64).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-11,0-1 (880-31400-1), (CCV 880-59596/31), (CCV 880-59596/47), (CCV 880-59596/58), (LCS 880-59402/2-A), (LCSD 880-59402/3-A), (870-19120-A-2-E), (870-19120-A-2-F MS) and (870-19120-A-2-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-59402 and analytical batch 880-59596 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State Com Battery

Job ID: 880-31400-1
SDG: 23-0102-05

Client Sample ID: S-11,0-1

Date Collected: 07/25/23 13:00
Date Received: 07/28/23 14:27

Lab Sample ID: 880-31400-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/04/23 13:45	08/05/23 04:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 13:45	08/05/23 04:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 13:45	08/05/23 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:54*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/04/23 13:45*	*08/05/23 04:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/23 16:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.2**		50.2		mg/Kg			08/09/23 10:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/07/23 14:17	08/09/23 03:41	1
Diesel Range Organics (Over C10-C28)	**53.2**		50.2		mg/Kg		08/07/23 14:17	08/09/23 03:41	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/07/23 14:17	08/09/23 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*08/07/23 14:17*	*08/09/23 03:41*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*08/07/23 14:17*	*08/09/23 03:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**459**		5.02		mg/Kg			08/01/23 15:33	1

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31400-1	S-11,0-1	98	109										
LCS 880-59346/1-A	Lab Control Sample	94	100										
LCSD 880-59346/2-A	Lab Control Sample Dup	93	103										
MB 880-59297/5-A	Method Blank	82	91										
MB 880-59346/5-A	Method Blank	84	88										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-31400-1	S-11,0-1	140 S1+	128										
LCS 880-59402/2-A	Lab Control Sample	169 S1+	148 S1+										
LCSD 880-59402/3-A	Lab Control Sample Dup	172 S1+	158 S1+										
MB 880-59402/1-A	Method Blank	113	105										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59297/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59296 — **Prep Batch: 59297**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 08:20	08/04/23 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 08:20	08/04/23 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/04/23 08:20*	*08/04/23 12:38*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/04/23 08:20*	*08/04/23 12:38*	*1*

Lab Sample ID: MB 880-59346/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59296 — **Prep Batch: 59346**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/04/23 13:45*	*08/04/23 23:23*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/04/23 13:45*	*08/04/23 23:23*	*1*

Lab Sample ID: LCS 880-59346/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59296 — **Prep Batch: 59346**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09760		mg/Kg		98	70 - 130		
Toluene			0.100	0.1041		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09165		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1760		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08932		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-59346/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 59296 — **Prep Batch: 59346**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09701		mg/Kg		97	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-59346/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59296 **Prep Batch: 59346**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1022		mg/Kg		102	70 - 130	2	35
Ethylbenzene			0.100	0.08999		mg/Kg		90	70 - 130	2	35
m,p-Xylenes			0.200	0.1724		mg/Kg		86	70 - 130	2	35
o-Xylene			0.100	0.08750		mg/Kg		88	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-59402/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59402**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/23 18:11	08/08/23 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/23 18:11	08/08/23 19:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/23 18:11	08/08/23 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*08/05/23 18:11*	*08/08/23 19:25*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*08/05/23 18:11*	*08/08/23 19:25*	*1*

Lab Sample ID: LCS 880-59402/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59402**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1068		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1003		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*169*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*148*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-59402/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59402**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1052		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	960.9		mg/Kg		96	70 - 130	4	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-59402/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 59596 **Prep Batch: 59402**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	172	S1+	70 - 130
o-Terphenyl (Surr)	158	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58763/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 59031

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/01/23 14:08	1

Lab Sample ID: LCS 880-58763/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 59031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.0		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-58763/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 59031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	226.6		mg/Kg		91	90 - 110	5	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

GC VOA

Analysis Batch: 59296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	8021B	59346
MB 880-59297/5-A	Method Blank	Total/NA	Solid	8021B	59297
MB 880-59346/5-A	Method Blank	Total/NA	Solid	8021B	59346
LCS 880-59346/1-A	Lab Control Sample	Total/NA	Solid	8021B	59346
LCSD 880-59346/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59346

Prep Batch: 59297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59297/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	5035	
MB 880-59346/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59346/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59346/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 59552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	8015NM Prep	
MB 880-59402/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59402/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	8015B NM	59402
MB 880-59402/1-A	Method Blank	Total/NA	Solid	8015B NM	59402
LCS 880-59402/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59402
LCSD 880-59402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59402

Analysis Batch: 59746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Soluble	Solid	DI Leach	
MB 880-58763/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58763/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58763/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State Com Battery

Job ID: 880-31400-1
SDG: 23-0102-05

HPLC/IC

Analysis Batch: 59031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31400-1	S-11,0-1	Soluble	Solid	300.0	58763
MB 880-58763/1-A	Method Blank	Soluble	Solid	300.0	58763
LCS 880-58763/2-A	Lab Control Sample	Soluble	Solid	300.0	58763
LCSD 880-58763/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58763

Lab Chronicle

Client: Larson & Associates, Inc.
Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery
SDG: 23-0102-05

Client Sample ID: S-11,0-1
Date Collected: 07/25/23 13:00
Date Received: 07/28/23 14:27

Lab Sample ID: 880-31400-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	59346	08/04/23 13:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 04:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59552	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59746	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59402	08/07/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/09/23 03:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58763	07/28/23 17:20	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59031	08/01/23 15:33	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-31400-1
Project/Site: Chamaeleon State Com Battery SDG: 23-0102-05

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaeleon State Com Battery

Job ID: 880-31400-1
SDG: 23-0102-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31400-1	S-11,0-1	Solid	07/25/23 13:00	07/28/23 14:27

No. 3104

31400 CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

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

Data Reported to

DATE 7/28/2023 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Chameleon State Com Battery

LAI PROJECT # 23-002-05 COLLECTOR RN+KL

TRRP report? ☐ Yes ☑ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE
Time zone/State: MST/MM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	8081 PESTICIDES ☐	8082 PCBS ☐	PAH 8270 ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	HERB ☐	Semi-VOC ☐	LEAD - TOTAL ☐	D W 200.8 ☐	OTHER LIST ☐	RCI ☐	TOX ☐	TSS ☐	FLASHPOINT ☐	TCLP ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-11, 0-1		7/25/23	1300	S	1				X		X			X	X	X																												
TOTAL																																												

880-31400 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 7/28/2023 1427	RECEIVED BY (Signature) 1427
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 4.5/4.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31400-1
SDG Number: 23-0102-05

Login Number: 31400
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 8/21/2023 11:19:54 AM

JOB DESCRIPTION

Chamaelon St. Com
SDG NUMBER 23-0102-05

JOB NUMBER

880-31775-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Holly Taylor

Generated
8/21/2023 11:19:54 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Laboratory Job ID: 880-31775-1
SDG: 23-0102-05

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-31775-1
Project/Site: Chamaelon St. Com SDG: 23-0102-05

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Job ID: 880-31775-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31775-1

Receipt
The sample was received on 8/8/2023 9:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: S-10 0-1" (880-31775-1).

Sample ID changed per Robert Nelson (email)
S-10 0-1" (880-31775-1)

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21) and (LCS 880-60389/2-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Client Sample ID: S-10 0-1"
Date Collected: 08/07/23 10:00
Date Received: 08/08/23 09:35

Lab Sample ID: 880-31775-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/17/23 09:14	08/17/23 17:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/23 09:14	08/17/23 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/23 09:14	08/17/23 17:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		08/17/23 09:14	08/17/23 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/23 09:14	08/17/23 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/23 09:14	08/17/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/17/23 09:14*	*08/17/23 17:38*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*08/17/23 09:14*	*08/17/23 17:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/18/23 08:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/16/23 14:53	08/19/23 10:39	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/16/23 14:53	08/19/23 10:39	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/23 14:53	08/19/23 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*08/16/23 14:53*	*08/19/23 10:39*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*08/16/23 14:53*	*08/19/23 10:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.3**		4.98		mg/Kg			08/09/23 10:33	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31775-1	S-10 0-1"	91	80
LCS 880-60430/1-A	Lab Control Sample	113	114
LCSD 880-60430/2-A	Lab Control Sample Dup	115	104
MB 880-60430/5-A	Method Blank	71	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31775-1	S-10 0-1"	109	89
880-31775-1 MS	S-10 0-1"	104	79
880-31775-1 MSD	S-10 0-1"	105	78
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60430/5-A
Matrix: Solid
Analysis Batch: 60428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60430

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 09:14	08/17/23 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 09:14	08/17/23 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 09:14	08/17/23 11:26	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		08/17/23 09:14	08/17/23 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 09:14	08/17/23 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 09:14	08/17/23 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*08/17/23 09:14*	*08/17/23 11:26*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/17/23 09:14*	*08/17/23 11:26*	*1*

Lab Sample ID: LCS 880-60430/1-A
Matrix: Solid
Analysis Batch: 60428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60430

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09480		mg/Kg		95	70 - 130		
Toluene			0.100	0.1113		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1133		mg/Kg		113	70 - 130		
m,p-Xylenes			0.200	0.2460		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1203		mg/Kg		120	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-60430/2-A
Matrix: Solid
Analysis Batch: 60428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09120		mg/Kg		91	70 - 130	4	35
Toluene			0.100	0.1069		mg/Kg		107	70 - 130	4	35
Ethylbenzene			0.100	0.1079		mg/Kg		108	70 - 130	5	35
m,p-Xylenes			0.200	0.2357		mg/Kg		118	70 - 130	4	35
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*156*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*
o-Terphenyl (Surr)	*145*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*

Lab Sample ID: LCS 880-60389/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-60389/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	953.3		mg/Kg		95	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*130*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-31775-1 MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: S-10 0-1"
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-31775-1 MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: S-10 0-1"
Prep Type: Total/NA
Prep Batch: 60389

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	79		70 - 130

Lab Sample ID: 880-31775-1 MSD
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: S-10 0-1"
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	105		70 - 130
o-Terphenyl (Surr)	78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59648/1-A
Matrix: Solid
Analysis Batch: 59677

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/23 21:56	1

Lab Sample ID: LCS 880-59648/2-A
Matrix: Solid
Analysis Batch: 59677

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.6		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-59648/3-A
Matrix: Solid
Analysis Batch: 59677

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	241.4		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

GC VOA

Analysis Batch: 60428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	8021B	60430
MB 880-60430/5-A	Method Blank	Total/NA	Solid	8021B	60430
LCS 880-60430/1-A	Lab Control Sample	Total/NA	Solid	8021B	60430
LCSD 880-60430/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60430

Prep Batch: 60430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	5035	
MB 880-60430/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60430/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60430/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 60536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-1 MS	S-10 0-1"	Total/NA	Solid	8015NM Prep	
880-31775-1 MSD	S-10 0-1"	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-1 MS	S-10 0-1"	Total/NA	Solid	8015B NM	60389
880-31775-1 MSD	S-10 0-1"	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Soluble	Solid	DI Leach	
MB 880-59648/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59648/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59648/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 59677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31775-1	S-10 0-1"	Soluble	Solid	300.0	59648

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

HPLC/IC (Continued)

Analysis Batch: 59677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59648/1-A	Method Blank	Soluble	Solid	300.0	59648
LCS 880-59648/2-A	Lab Control Sample	Soluble	Solid	300.0	59648
LCSD 880-59648/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59648

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Client Sample ID: S-10 0-1"
Date Collected: 08/07/23 10:00
Date Received: 08/08/23 09:35

Lab Sample ID: 880-31775-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60430	08/17/23 09:14	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60428	08/17/23 17:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60536	08/18/23 08:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			60714	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 10:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59648	08/08/23 15:05	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59677	08/09/23 10:33	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Chamaelon St. Com

Job ID: 880-31775-1
SDG: 23-0102-05

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31775-1	S-10 0-1"	Solid	08/07/23 10:00	08/08/23 09:35

75

No. 3097

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

DATE 8-7-23 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME S Chamaeleon St Com

LAI PROJECT # 23-0102-05 COLLECTOR KL

Data Reported to Mark Larson / Robert Nelson

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State MST/MDT

S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SF-12,0-1		8-7-23	1000	S	1				X		X				X		X												X	

880-31775 Chain of Custody

TOTAL 1

RELINQUISHED BY (Signature) DATE/TIME 8/7 4:47 RECEIVED BY (Signature)

RELINQUISHED BY (Signature) DATE/TIME 8/8 9:35 RECEIVED BY (Signature)

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 5.9/5.6 THERM# IR8 -3C
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-31775-1
SDG Number: 23-0102-05

Login Number: 31775
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Appendix E

Photographic Documentation

Tracking Number: nAPP2313648339
Delineation Report and Remediation Plan
Chevron USA Inc., Chamaeleon BIN State Com Battery
Produced Water Release
August 22, 2023

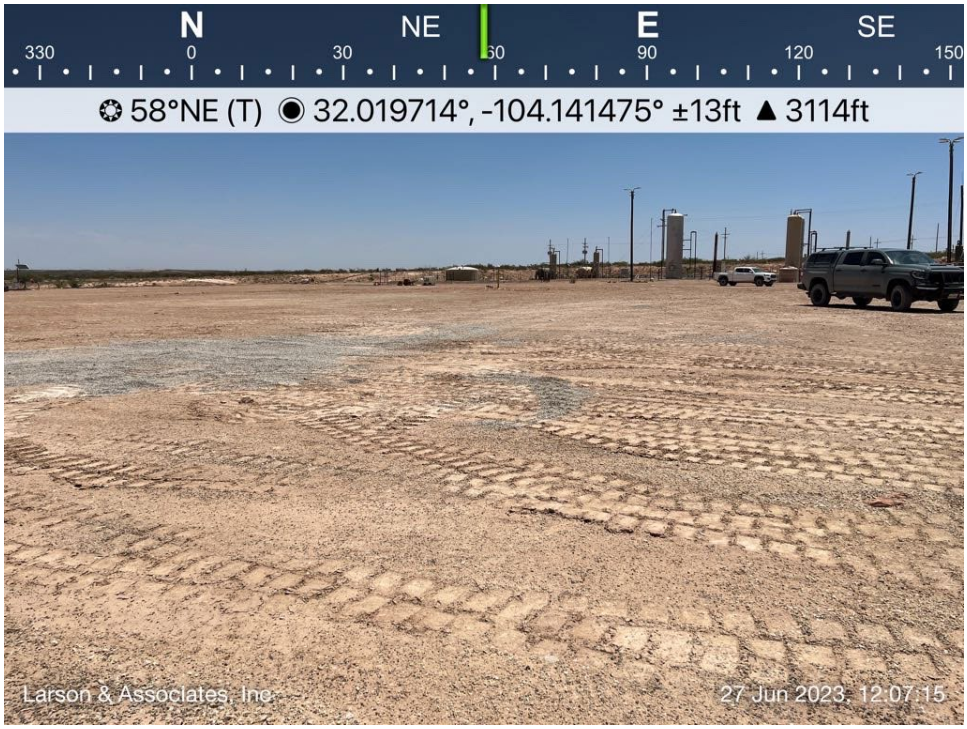
Impacted area viewing south, June 27, 2022

Impacted area viewing west, June 27, 2022

Impacted area viewing northwest, June 27, 2022

Impacted area viewing north, June 27, 2022

Tracking Number: nAPP2313648339
Delineation Report and Remediation Plan
Chevron USA Inc., Chamaeleon BIN State Com Battery
Produced Water Release
August 22, 2023



Impacted area viewing northeast, June 27, 2022

Impacted area viewing southeast, June 27, 2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 263354

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 263354
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the sensitive nature of the release location and the site being located within high karst, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Please collect confirmation samples, representing no more than 200 ft2. The work will need to occur in 90 days after the report has been reviewed.	1/29/2024