Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225428183
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?	>101.5 (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.

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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: Water Advisor

Signature: Amy Barnhill Date: 1-16-23

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

OCD Only

Received by: Jocelyn Harimon Date: 01/17/2023

State of New Mexico
Oil Conservation Division

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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: Water Advisor

Signature: Amy Barnhill Date: 1-16-23

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

OCD Only

Received by: Jocelyn Harimon Date: 01/17/2023

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

Signature: Jennifer Nobui Date: 02/02/2023

Tracking Number(s): nAPP2225428183
Delineation Report and Remediation Plan
Salado Draw Pad 415
Produced Water Release
Lea County, New Mexico

Latitude: N 32.02170°
Longitude: W -103.63134°

LAI Project No. 22-0105-13

January 11, 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
Sr. Geoscientist

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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 I for a produced water release at the Salado Draw Pad 415 (Site) located in Unit N (SE/4 of SW/4), Section 24, Township 26 South, Range 32 East in Lea County, New Mexico. The geodetic position is North 32.02170° and West -103.63134°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on August 27, 2022, due to the discharge line from the booster pump rupturing resulting in the release of produced water to the ground. Chevron reported that 101 barrels (bbls) of produced water were released, with 15 bbls recovered. The affected area measures approximately 11,936 square feet. The initial C-141 was submitted to NMOCD District I on September 9, 2022. The release was assigned incident number nAPP2225428183. 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 3,134 feet above mean sea level (MSL).
- The surface elevation gradually decreases to the southwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Medium Risk” potential.
- The geology consists of the Quaternary age- sand and silt in sheets and locally includes cover sand (USGS).
- The soils are designated as Pyote and Maljamar fine sands, consisting of 0 to 30 inches fine sand, underlain by 30 to 60 inches of fine sandy loam.
- Groundwater occurs at a depth greater than 101.5 feet below ground surface (bgs) based on depth to groundwater measurements taken 72 hours after installing a boring (SB-1) on April 14, 2020, approximately 0.42 miles or 2,208.14 feet north from the Site.

Appendix B presents USGS data depicting karst risk potential. Appendix C presents the soil boring log. Figure 3 presents the soil boring location.

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 2,500 mg/Kg
- Chloride 20,000 mg/Kg

2.0 DELINEATION

On September 7, 2022, LAI personnel used a stainless-steel hand auger to collect soil samples at twenty-one (21) locations inside and outside the spill area (S-1 through S-21) to delineate the release vertically and horizontally. The samples were collected at ground surface and at a depth of approximately 0.5 feet below ground surface (bgs). 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), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively.

Benzene and BTEX were reported below the NMOCD remediation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively. TPH and/or chloride exceeded the NMOCD delineation limits of 100 mg/Kg and 600 mg/Kg, respectively, at soil sample locations S-1, S-2, and S-4 through S-17 and S-21.

On November 10 and 11, 2022, LAI personnel used a Geoprobe 7822DT direct push rig to further delineate the above-mentioned sample locations where TPH and/or chloride concentrations exceeded the NMOCD delineation limits. An additional horizontal delineation soil sample (S-22) was collected approximately ten (10) feet west of sample location S-21. The laboratory results demonstrate that the release was delineated horizontally and vertically according to the NMOCD remediation and closure requirements (19.15.29.12 NMAC Table 1) for groundwater at a depth greater than 100 feet bgs. Table 1 presents the delineation soil sample analytical data summary. Figure 2 presents an aerial map showing the sample locations. Appendix D presents the laboratory report. Appendix E presents the photographic documentation.

3.0 REMEDIATION PLAN

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 548 square feet encompassing S-3 to a depth of 0.5 feet bgs.
- Excavate soil from an area measuring approximately 870 square feet encompassing S-15 and S-21 to a depth of 1-foot bgs.
- Excavate soil from an area measuring approximately 12,472 square feet encompassing S-1, S-2, S-4 through S-8, and S-10 through S-14, S-16, and S-17 to a depth of 2 feet bgs.
- Excavate soil from an area measuring approximately 964 square feet encompassing S-9 to a depth of 4.1 feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill the excavation with clean caliche on the production pad assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District I.

Figure 4 presents the proposed excavation area.

Tables

Table 1
Soil Sample Analytical Data Summary
SD 24 13 Fed P415
Lea County, New Mexico
32° 01' 18.34338" North, 103° 37' 49.37670" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0	9/7/2022	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**7,230**
	0.5	9/7/2022	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	**7,090**
	1	11/10/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**664**
	3	11/10/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	20.1
	5	11/10/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	36.8
S-2	0	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	51.8	<26.9	51.8	**14,000**
	0.5	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**3,690**
	1	11/10/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**2,410**
	3	11/10/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	36.5
	5	11/10/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	43.8
S-3	0	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**627**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	199
S-4	0	9/7/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	15.9
	0.5	9/7/2022	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	27.9
S-5	0	9/7/2022	In-Situ	<0.00109	<0.00217	477	16,600	437	**17,500**	**6,650**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	122	<27.5	**122**	**3,500**
	1	11/10/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,510**
	3	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	82.6
	5	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	58.9
S-6	0	9/7/2022	In-Situ	<0.00104	<0.00208	<26.0	270	191	**462**	**16,400**

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32° 01' 18.34338" North, 103° 37' 49.37670" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**4,210**
	1	11/10/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,760**
	3	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	305
	5	11/10/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	51.6
S-7	0	9/7/2022	In-Situ	<0.00104	<0.00208	<26.0	362	249	**611**	**10,400**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**4,610**
	1	11/10/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**2,440**
	3	11/10/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	33.7
	5	11/10/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	23.7
S-8	0	9/7/2022	In-Situ	<0.00103	<0.00206	<25.8	220	74.4	**295**	**7,300**
	0.5	9/7/2022	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	**7,940**
	1	11/10/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**4,970**
	3	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3.55
	5	11/10/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	27.9
S-9	0	9/7/2022	In-Situ	<0.00106	<0.00213	<26.6	3,670	2,000	**5,670**	**31,700**
	0.5	9/7/2022	In-Situ	<0.00109	<0.00217	<27.2	66.7	<27.2	66.7	**5,200**
	1	11/10/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**2,830**
	3	11/10/2022	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	**2,790**
	4.5	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	6,440
S-10	0	9/7/2022	In-Situ	<0.00103	<0.00206	<25.8	420	339	**759**	**37,600**

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Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	0.5	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**6,730**
	1	11/10/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**2,220**
	3	11/10/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	87.6
	4.5	11/10/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	42.4
S-11	0	9/7/2022	In-Situ	<0.00105	<0.00211	<26.3	91.3	70.8	**162**	**11,300**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	66.8	<27.5	66.8	**5,860**
	1	11/10/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**2,000**
	3	11/10/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	65.5
	4.5	11/10/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	28.9
S-12	0	9/7/2022	In-Situ	<0.00104	<0.00208	<26.0	160	90.5	**250**	**8,420**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**3,640**
	1	11/11/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,110**
	3	11/11/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	64.8
	5	11/11/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.1
S-13	0	9/7/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**5,740**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00200	<27.5	<27.5	<27.5	<27.5	**4,690**
	1	11/11/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**2,270**
	3	11/11/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	58.4
	5	11/11/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	102
S-14	0	9/7/2022	In-Situ	<0.00105	<0.00211	<26.3	119	<26.3	**119**	**15,000**

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Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	0.5	9/7/2022	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**3,700**
	1	11/11/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,340**
	3	11/11/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	78.1
	5	11/11/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	17.2
S-15	0	9/7/2022	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**8,540**
	0.5	9/7/2022	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	**5,090**
	1	11/11/2022	In-Situ	<0.00199	<0.00398	<49.9	61.5	<49.9	61.5	22.1
	3	11/11/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	96.6
	5	11/11/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	38.5
S-16	0	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**11,000**
	0.5	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**5,120**
	1	11/11/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**3,390**
	3	11/11/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	149
	5	11/11/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	29.6
S-17	0	9/7/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**7,630**
	0.5	9/7/2022	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**4,810**
	1	11/11/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**713**
	3	11/11/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	28.0
	5	11/11/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	35.0
S-18	0 - 0.5	9/7/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	98.8

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Lea County, New Mexico
32° 01' 18.34338" North, 103° 37' 49.37670" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
S-19	0 - 0.5	9/7/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	4.73
S-20	0 - 0.5	9/7/2022	In-Situ	<0.00101	<0.00202	<26.3	<26.3	<26.3	<26.3	14.0
S-21	0 - 0.5	9/7/2022	In-Situ	<0.00105	<0.00211	<26.3	505	<26.3	**505**	142
	1	11/11/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	50.3	50.3	78.6
	3	11/11/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	19.4
	5	11/11/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	15.4
S-22	0 - 1	11/11/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	105

Notes: Analysis performed by Permian Basin Environmental Laboratory (PBEL) 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

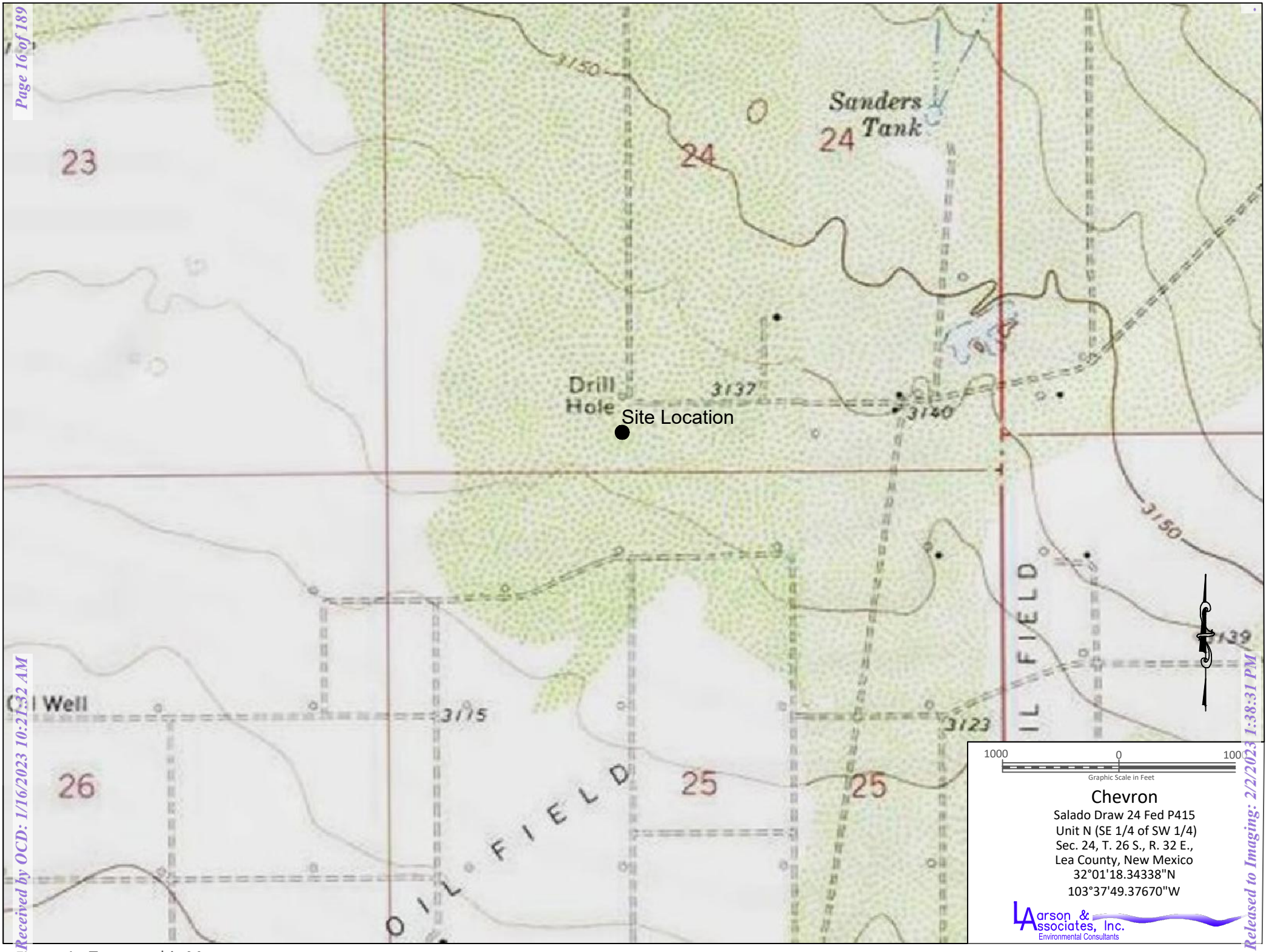

Figure 1 - Topographic Map

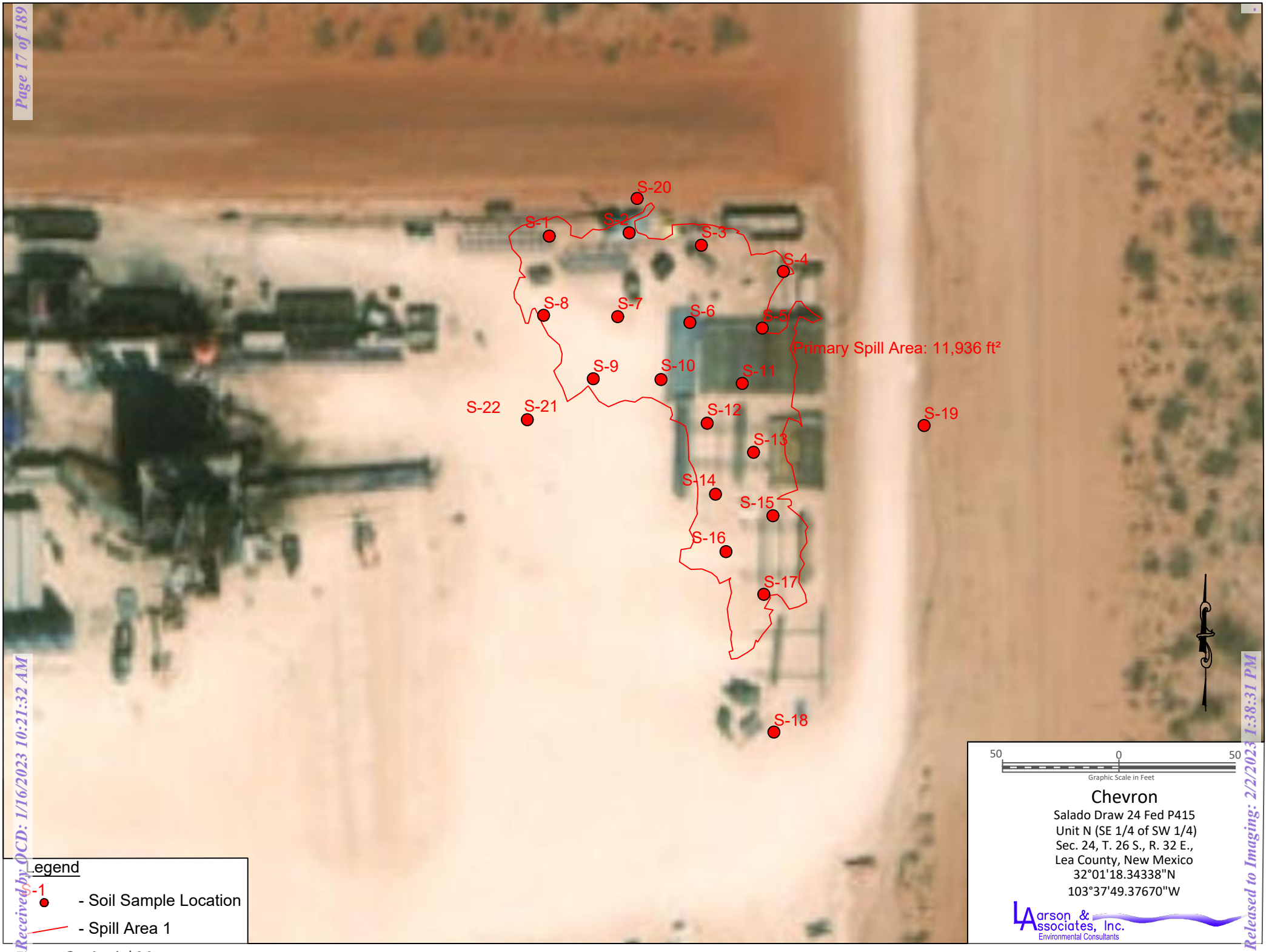

Figure 2 - Aerial Map

Figure 3 - Aerial Map Showing Soil Bore Location

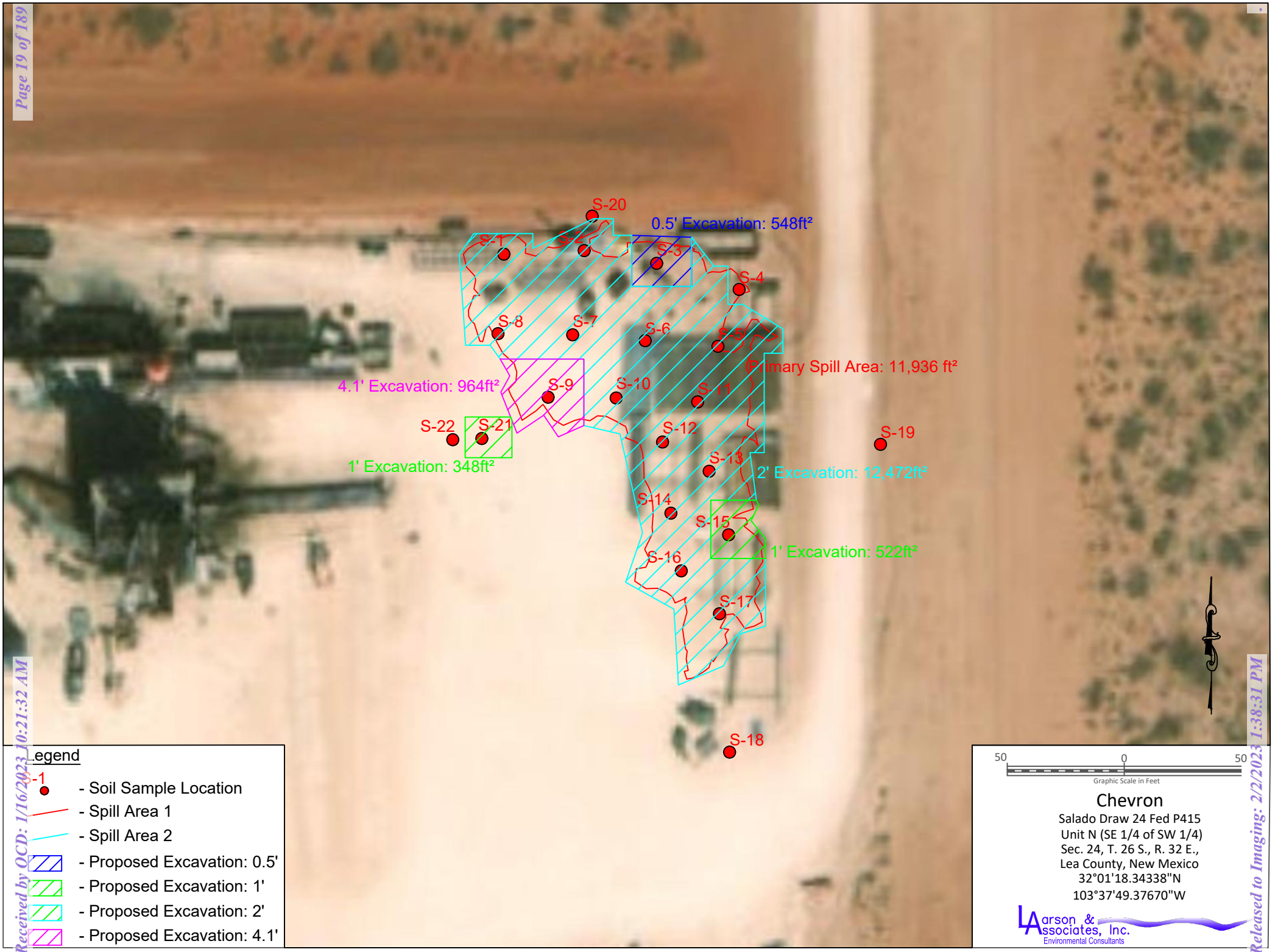

Figure 4 - Aerial Map Showing Proposed Excavation Area

Appendix A

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	nAPP2225428183
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude 32.02170 Longitude -103.63134
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw Pad 415	Site Type: Oil
Date Release Discovered: 8-27-022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	24	26S	32E	Lea

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) 101	Volume Recovered (bbls) 15
	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: While pumping down, the discharge line from the boost pump ruptured spilling 101 bbls of produced water to the ground.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225428183
District RP	
Facility ID	
Application ID	

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? Over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Amy Barnhill emailed Mike Bratcher on 8-28-22 at 2:20pm.	

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: Amy Barnhill Title: Water Advisor

Signature: Amy Barnhill Date: 9-9-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225428183
District RP	
Facility ID	
Application ID	

Spill Calculations: known volumes

Appendix B

Karst Risk Potential


Salado Draw Pad 415
Medium

Appendix C

Soil Boring Log

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING SOIL : PPM SOIL : PPM
	0	Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry	ML			1			5 7	
	10	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry	Caliche			2			10 15 20 25	
	30	Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted	ML			3			30	
	35	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)	Caliche			4			35 39	
	40	Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm)	ML						40 45 50 55 60	

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
	65	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)	ML			5			66	SOIL : PPM SOIL : PPM
	70								70	
	75								75	
	80								80	
	85								85	
	90	Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)	ML						90	
	95								95	
	100					6			100 101.5	
	105	TD:101.5' *Dry After 72 Hours*							105	

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
L LABORATORY TEST LOCATION
\+ PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

Appendix D

Laboratory Reports

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: SD 24 13 Fed P415

Project Number: 22-0105-13

Location:

Lab Order Number: 2I08001

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 09/09/22

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1,0	2I08001-01	Soil	09/07/22 10:20	09-08-2022 08:36
S-1,0.5	2I08001-02	Soil	09/07/22 10:21	09-08-2022 08:36
S-2,0	2I08001-03	Soil	09/07/22 10:22	09-08-2022 08:36
S-2,0.5	2I08001-04	Soil	09/07/22 10:23	09-08-2022 08:36
S-3,0	2I08001-05	Soil	09/07/22 10:24	09-08-2022 08:36
S-3,0.5	2I08001-06	Soil	09/07/22 10:25	09-08-2022 08:36
S-4,0	2I08001-07	Soil	09/07/22 10:26	09-08-2022 08:36
S-4,0.5	2I08001-08	Soil	09/07/22 10:27	09-08-2022 08:36
S-5,0	2I08001-09	Soil	09/07/22 10:28	09-08-2022 08:36
S-5,0.5	2I08001-10	Soil	09/07/22 10:29	09-08-2022 08:36
S-6,0	2I08001-11	Soil	09/07/22 10:30	09-08-2022 08:36
S-6,0.5	2I08001-12	Soil	09/07/22 10:31	09-08-2022 08:36
S-7,0	2I08001-13	Soil	09/07/22 10:32	09-08-2022 08:36
S-7,0.5	2I08001-14	Soil	09/07/22 10:33	09-08-2022 08:36
S-8,0	2I08001-15	Soil	09/07/22 10:34	09-08-2022 08:36
S-8,0.5	2I08001-16	Soil	09/07/22 10:35	09-08-2022 08:36
S-9,0	2I08001-17	Soil	09/07/22 10:36	09-08-2022 08:36
S-9,0.5	2I08001-18	Soil	09/07/22 10:37	09-08-2022 08:36
S-10,0	2I08001-19	Soil	09/07/22 10:38	09-08-2022 08:36
S-10,0.5	2I08001-20	Soil	09/07/22 10:39	09-08-2022 08:36
S-11,0	2I08001-21	Soil	09/07/22 10:40	09-08-2022 08:36
S-11,0.5	2I08001-22	Soil	09/07/22 10:41	09-08-2022 08:36
S-12,0	2I08001-23	Soil	09/07/22 10:42	09-08-2022 08:36
S-12,0.5	2I08001-24	Soil	09/07/22 10:43	09-08-2022 08:36
S-13,0	2I08001-25	Soil	09/07/22 10:44	09-08-2022 08:36
S-13,0.5	2I08001-26	Soil	09/07/22 10:45	09-08-2022 08:36
S-14,0	2I08001-27	Soil	09/07/22 10:46	09-08-2022 08:36
S-14,0.5	2I08001-28	Soil	09/07/22 10:47	09-08-2022 08:36
S-15,0	2I08001-29	Soil	09/07/22 10:48	09-08-2022 08:36
S-15,0.5	2I08001-30	Soil	09/07/22 10:49	09-08-2022 08:36
S-16,0	2I08001-31	Soil	09/07/22 10:50	09-08-2022 08:36
S-16,0.5	2I08001-32	Soil	09/07/22 10:51	09-08-2022 08:36
S-17,0	2I08001-33	Soil	09/07/22 10:52	09-08-2022 08:36
S-17,0.5	2I08001-34	Soil	09/07/22 10:53	09-08-2022 08:36

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-18 0-0.5	2I08001-35	Soil	09/07/22 10:54	09-08-2022 08:36
S-19 0-0.5	2I08001-36	Soil	09/07/22 10:55	09-08-2022 08:36
S-20 0-0.5	2I08001-37	Soil	09/07/22 10:56	09-08-2022 08:36
S-21 0-0.5	2I08001-38	Soil	09/07/22 10:57	09-08-2022 08:36

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-1,0

2I08001-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:11	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:11	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:11	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:11	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:11*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7230**	10.9	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 14:11	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 16:56	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 16:56	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 16:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.0 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 16:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 16:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 16:56	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-1,0.5

2I08001-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:32	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:32	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:32	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:32	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:32*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7090**	11.1	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 14:51	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 17:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 17:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 17:18	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-2,0

2I08001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:53	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:53	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:53	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:53	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 16:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 16:53*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14000**	26.9	mg/kg dry	25	P2I0810	09/08/22 11:52	09/08/22 15:04	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:41	TPH 8015M	
>C12-C28	**51.8**	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:41	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 17:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 17:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.7 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 17:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**51.8**	26.9	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 17:41	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-2,0.5

2I08001-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:14	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:14	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:14	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:14	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:14*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3690**	5.38	mg/kg dry	5	P2I0810	09/08/22 11:52	09/08/22 15:17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:03	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:03	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.5 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.1 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 18:03	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-3,0

2I08001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:36	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:36	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:36	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:36	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*85.4 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**627**	1.08	mg/kg dry	1	P2I0810	09/08/22 11:52	09/08/22 15:31	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:25	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:25	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.8 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 18:25	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-3,0.5

2I08001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:57	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:57	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:57	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:57	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 17:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 17:57*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**199**	1.10	mg/kg dry	1	P2I0810	09/08/22 11:52	09/08/22 15:44	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:47	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:47	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 18:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.9 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 18:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 18:47	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-4,0

2I08001-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:18	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:18	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:18	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:18	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 18:18*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 18:18*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15.9**	1.04	mg/kg dry	1	P2I0810	09/08/22 11:52	09/08/22 15:57	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:09	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:09	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:09	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 19:09*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.8 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 19:09*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 19:09	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-4,0.5

2I08001-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:39	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:39	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:39	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:39	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 18:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 18:39*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.3 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 18:39*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**27.9**	1.11	mg/kg dry	1	P2I0810	09/08/22 11:52	09/08/22 16:10	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:32	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:32	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 19:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 19:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 19:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 19:32	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-5,0

2I08001-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:00	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:00	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:00	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 19:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*107 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 19:00*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6650**	10.9	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 16:24	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**477**	272	mg/kg dry	10	P2I0806	09/08/22 10:37	09/09/22 08:26	TPH 8015M	
>C12-C28	**16600**	272	mg/kg dry	10	P2I0806	09/08/22 10:37	09/09/22 08:26	TPH 8015M	
>C28-C35	**437**	272	mg/kg dry	10	P2I0806	09/08/22 10:37	09/09/22 08:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 08:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*122 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 08:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**17500**	272	mg/kg dry	10	[CALC]	09/08/22 10:37	09/09/22 08:26	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-5,0.5

2I08001-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 19:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 19:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 19:21*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3500**	5.49	mg/kg dry	5	P2I0810	09/08/22 11:52	09/08/22 16:37	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 20:16	TPH 8015M	
>C12-C28	**122**	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 20:16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 20:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.8 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 20:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 20:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**122**	27.5	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 20:16	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-6,0

2I08001-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:24	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:24	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:24	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:24	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.4 %*		*80-120*	*P2I0802*	*09/08/22 10:03*	*09/08/22 20:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*		*80-120*	*P2I0802*	*09/08/22 10:03*	*09/08/22 20:24*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16400**	26.0	mg/kg dry	25	P2I0810	09/08/22 11:52	09/08/22 17:17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:21	TPH 8015M	
>C12-C28	**270**	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:21	TPH 8015M	
>C28-C35	**191**	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*		*70-130*	*P2I0806*	*09/08/22 10:37*	*09/08/22 21:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.2 %*		*70-130*	*P2I0806*	*09/08/22 10:37*	*09/08/22 21:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**462**	26.0	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 21:21	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-6,0.5

2I08001-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:45	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:45	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:45	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:45	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 20:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 20:45*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 20:45*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4210**	5.49	mg/kg dry	5	P2I0810	09/08/22 11:52	09/08/22 17:57	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:43	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:43	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 21:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.5 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 21:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 21:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 21:43	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-7,0

2I08001-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:05	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:05	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:05	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:05	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*		*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:05*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.7 %*		*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:05*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10400**	26.0	mg/kg dry	25	P2I0810	09/08/22 11:52	09/08/22 18:10	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:05	TPH 8015M	
>C12-C28	**362**	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:05	TPH 8015M	
>C28-C35	**249**	26.0	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.1 %*		*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.8 %*		*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**611**	26.0	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 22:05	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-7,0.5

2I08001-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:26	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:26	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:26	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:26	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*91.9 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:26*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4610**	5.49	mg/kg dry	5	P2I0810	09/08/22 11:52	09/08/22 18:24	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:27	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:27	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 22:27	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

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2I08001-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:47	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:47	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:47	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:47	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 21:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*103 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:47*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.7 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 21:47*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7300**	10.3	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 18:37	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:48	TPH 8015M	
>C12-C28	**220**	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:48	TPH 8015M	
>C28-C35	**74.4**	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 22:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.5 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 22:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**295**	25.8	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 22:48	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-8,0.5

2I08001-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:08	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:08	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:08	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:08	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:08*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7940**	11.2	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 18:50	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:10	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:10	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 23:10	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

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2I08001-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:29	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:29	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:29	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:29	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*79.9 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:29*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:29*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**31700**	53.2	mg/kg dry	50	P2I0810	09/08/22 11:52	09/08/22 19:04	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:32	TPH 8015M	
>C12-C28	**3670**	26.6	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:32	TPH 8015M	
>C28-C35	**2000**	26.6	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.1 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5670**	26.6	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 23:32	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-9,0.5

2I08001-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:49	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:49	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:49	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:49	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 22:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:49*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 22:49*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5200**	10.9	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 19:17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:54	TPH 8015M	
>C12-C28	**66.7**	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:54	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2I0806	09/08/22 10:37	09/08/22 23:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.3 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/08/22 23:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**66.7**	27.2	mg/kg dry	1	[CALC]	09/08/22 10:37	09/08/22 23:54	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-10,0

2I08001-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:10	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:10	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:10	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:10	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 23:10*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 23:10*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**37600**	51.5	mg/kg dry	50	P2I0810	09/08/22 11:52	09/08/22 19:31	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:16	TPH 8015M	
>C12-C28	**420**	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:16	TPH 8015M	
>C28-C35	**339**	25.8	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.6 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 00:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.4 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 00:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**759**	25.8	mg/kg dry	1	[CALC]	09/08/22 10:37	09/09/22 00:16	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-10,0.5

2I08001-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:31	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:31	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:31	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:31	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0802	09/08/22 10:03	09/08/22 23:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.4 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 23:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*80-120*		*P2I0802*	*09/08/22 10:03*	*09/08/22 23:31*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6730**	10.8	mg/kg dry	10	P2I0810	09/08/22 11:52	09/08/22 19:44	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:39	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:39	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0806	09/08/22 10:37	09/09/22 00:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 00:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.2 %*	*70-130*		*P2I0806*	*09/08/22 10:37*	*09/09/22 00:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/08/22 10:37	09/09/22 00:39	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-11,0

2I08001-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 08:51	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 08:51	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 08:51	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 08:51	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 08:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 08:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 08:51*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11300**	26.3	mg/kg dry	25	P2I0811	09/08/22 11:54	09/08/22 21:04	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 17:36	TPH 8015M	
>C12-C28	**91.3**	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 17:36	TPH 8015M	
>C28-C35	**70.8**	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 17:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.3 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 17:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*69.7 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 17:36*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**162**	26.3	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 17:36	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-11,0.5

2I08001-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:12	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:12	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:12	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:12	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:12*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5860**	11.0	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 21:44	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:00	TPH 8015M	
>C12-C28	**66.8**	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:00	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.5 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.8 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**66.8**	27.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 18:00	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-12,0

2I08001-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:33	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:33	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:33	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:33	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:33	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:33*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:33*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8420**	10.4	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 21:57	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:24	TPH 8015M	
>C12-C28	**160**	26.0	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:24	TPH 8015M	
>C28-C35	**90.5**	26.0	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.4 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.8 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**250**	26.0	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 18:24	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-12,0.5

2I08001-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:54	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:54	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:54	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:54	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 09:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:54*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 09:54*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3640**	5.49	mg/kg dry	5	P2I0811	09/08/22 11:54	09/08/22 22:11	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:47	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:47	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 18:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.6 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*68.7 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 18:47*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 18:47	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-13,0

2I08001-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:15	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5740**	10.5	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 22:24	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:11	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:11	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.0 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*65.6 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:11*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 19:11	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-13,0.5

2I08001-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:36	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:36	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:36	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:36	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:36*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4690**	11.0	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 22:37	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:34	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:34	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:34	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.5 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:34*	*TPH 8015M*	
Surrogate: o-Terphenyl		*68.8 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:34*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 19:34	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-14,0

2I08001-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:58	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:58	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:58	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:58	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 10:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:58*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.8 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 10:58*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**15000**	26.3	mg/kg dry	25	P2I0811	09/08/22 11:54	09/08/22 22:51	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:57	TPH 8015M	
>C12-C28	**119**	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:57	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 19:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.1 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.3 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 19:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**119**	26.3	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 19:57	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-14,0.5

2I08001-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 11:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 11:19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3700**	5.43	mg/kg dry	5	P2I0811	09/08/22 11:54	09/08/22 23:04	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.1 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 20:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*72.0 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 20:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 20:21	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-15,0

2I08001-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:40	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:40	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:40	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:40	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 11:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 11:40*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 11:40*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8540**	10.6	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 23:17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:44	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:44	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 20:44	TPH 8015M	
Surrogate: 1-Chlorooctane		*74.4 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 20:44*	*TPH 8015M*	
Surrogate: o-Terphenyl		*71.6 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 20:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 20:44	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-15,0.5

2I08001-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 12:01	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 12:01	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 12:01	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 12:01	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 12:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 12:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 12:01*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5090**	11.1	mg/kg dry	10	P2I0811	09/08/22 11:54	09/08/22 23:30	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 21:07	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 21:07	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 21:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*70.6 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 21:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*71.9 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 21:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 21:07	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-16,0

2I08001-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:05	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:05	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:05	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:05	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:05*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:05*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11000**	26.9	mg/kg dry	25	P2I0811	09/08/22 11:54	09/09/22 00:10	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:16	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:16	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*71.8 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 22:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*72.0 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 22:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 22:16	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-16,0.5

2I08001-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:26	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:26	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:26	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:26	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:26*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.6 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:26*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5120**	11.0	mg/kg dry	10	P2I0811	09/08/22 11:54	09/09/22 00:50	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:39	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:39	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 22:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*71.4 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 22:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.9 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 22:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 22:39	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-17,0

2I08001-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:47	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:47	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:47	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:47	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 13:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.7 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:47*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 13:47*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7630**	11.0	mg/kg dry	10	P2I0811	09/08/22 11:54	09/09/22 01:03	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:02	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:02	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*71.0 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.3 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 23:02	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-17,0.5

2I08001-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:09	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:09	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:09	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:09	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:09*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4810**	10.9	mg/kg dry	10	P2I0811	09/08/22 11:54	09/09/22 01:17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:25	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:25	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.2 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.3 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 23:25	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-18 0-0.5

2I08001-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:30	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:30	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:30	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:30	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:30*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:30*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**98.8**	1.08	mg/kg dry	1	P2I0811	09/08/22 11:54	09/09/22 01:30	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:48	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:48	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0807	09/08/22 10:39	09/08/22 23:48	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.2 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:48*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.0 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/08/22 23:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/08/22 10:39	09/08/22 23:48	calc	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

S-19 0-0.5

2I08001-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:51	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:51	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:51	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:51	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 14:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.6 %*		*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*		*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 14:51*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.73**	1.02	mg/kg dry	1	P2I0811	09/08/22 11:54	09/09/22 01:43	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:12	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:12	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:12	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.1 %*		*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:12*	*TPH 8015M*	
Surrogate: o-Terphenyl		*70.4 %*		*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:12*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	09/08/22 10:39	09/09/22 00:12	calc	

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S-20 0-0.5

2I08001-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:13	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:13	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:13	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:13	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.3 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 15:13*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 15:13*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.0**	1.01	mg/kg dry	1	P2I0811	09/08/22 11:54	09/09/22 01:56	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P2I0903	09/09/22 09:39	09/09/22 09:41	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:35	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:35	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.1 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*71.5 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/08/22 10:39	09/09/22 00:35	calc	

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S-21 0-0.5

2I08001-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:34	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:34	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:34	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:34	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 15:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 15:34*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 15:34*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**142**	1.05	mg/kg dry	1	P2I0811	09/08/22 11:54	09/09/22 02:10	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2I0903	09/09/22 09:39	09/09/22 09:41	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:58	TPH 8015M	
>C12-C28	**505**	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:58	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2I0807	09/08/22 10:39	09/09/22 00:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*71.7 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.4 %*	*70-130*		*P2I0807*	*09/08/22 10:39*	*09/09/22 00:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**505**	26.3	mg/kg dry	1	[CALC]	09/08/22 10:39	09/09/22 00:58	calc	

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0802 - * DEFAULT PREP *** **										
Blank (P2I0802-BLK1)				Prepared & Analyzed: 09/08/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*90.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*90.1*	*80-120*			
LCS (P2I0802-BS1)				Prepared & Analyzed: 09/08/22						
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*94.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.1*	*80-120*			
LCS Dup (P2I0802-BSD1)				Prepared & Analyzed: 09/08/22						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120	4.08	20	
Toluene	0.112	0.00100	"	0.100		112	80-120	7.75	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120	9.42	20	
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120	8.29	20	
Xylene (o)	0.116	0.00100	"	0.100		116	80-120	8.16	20	
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
Calibration Check (P2I0802-CCV1)				Prepared & Analyzed: 09/08/22						
Benzene	0.0847	0.00100	mg/kg	0.102		83.1	80-120			
Toluene	0.0925	0.00100	"	0.102		90.7	80-120			
Ethylbenzene	0.0871	0.00100	"	0.102		85.4	80-120			
Xylene (p/m)	0.161	0.00200	"	0.204		79.1	80-120			
Xylene (o)	0.0905	0.00100	"	0.102		88.7	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0941*		"	*0.120*		*78.4*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0802 - * DEFAULT PREP *** **										
Calibration Check (P2I0802-CCV2)				Prepared & Analyzed: 09/08/22						
Benzene	0.105	0.00100	mg/kg	0.102		103	80-120			
Toluene	0.107	0.00100	"	0.102		105	80-120			
Ethylbenzene	0.108	0.00100	"	0.102		106	80-120			
Xylene (p/m)	0.196	0.00200	"	0.204		95.8	80-120			
Xylene (o)	0.112	0.00100	"	0.102		110	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*75-125*			
Calibration Check (P2I0802-CCV3)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.108	0.00100	mg/kg	0.102		106	80-120			
Toluene	0.110	0.00100	"	0.102		108	80-120			
Ethylbenzene	0.114	0.00100	"	0.102		112	80-120			
Xylene (p/m)	0.206	0.00200	"	0.204		101	80-120			
Xylene (o)	0.117	0.00100	"	0.102		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			
Matrix Spike (P2I0802-MS1)		**Source: 2I08001-20**		Prepared & Analyzed: 09/08/22						
Benzene	0.0997	0.00108	mg/kg dry	0.108	ND	92.8	80-120			
Toluene	0.0939	0.00108	"	0.108	ND	87.4	80-120			
Ethylbenzene	0.0960	0.00108	"	0.108	ND	89.3	80-120			
Xylene (p/m)	0.169	0.00215	"	0.215	ND	78.6	80-120			QM-05
Xylene (o)	0.0920	0.00108	"	0.108	ND	85.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.134*		"	*0.129*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.129*		*101*	*80-120*			
Matrix Spike Dup (P2I0802-MSD1)		**Source: 2I08001-20**		Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.0902	0.00108	mg/kg dry	0.108	ND	83.9	80-120	10.0	20	
Toluene	0.0872	0.00108	"	0.108	ND	81.1	80-120	7.41	20	
Ethylbenzene	0.0866	0.00108	"	0.108	ND	80.6	80-120	10.3	20	
Xylene (p/m)	0.145	0.00215	"	0.215	ND	67.4	80-120	15.3	20	QM-05
Xylene (o)	0.0760	0.00108	"	0.108	ND	70.7	80-120	19.1	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.137*		"	*0.129*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.131*		"	*0.129*		*101*	*80-120*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0803 - * DEFAULT PREP *** **										
Blank (P2I0803-BLK1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.8*	*80-120*			
LCS (P2I0803-BS1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			
LCS Dup (P2I0803-BSD1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120	1.92	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	5.68	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	0.490	20	
Xylene (p/m)	0.217	0.00200	"	0.200		108	80-120	2.88	20	
Xylene (o)	0.113	0.00100	"	0.100		113	80-120	3.05	20	
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
Calibration Check (P2I0803-CCV1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.108	0.00100	mg/kg	0.102		106	80-120			
Toluene	0.110	0.00100	"	0.102		108	80-120			
Ethylbenzene	0.114	0.00100	"	0.102		112	80-120			
Xylene (p/m)	0.206	0.00200	"	0.204		101	80-120			
Xylene (o)	0.117	0.00100	"	0.102		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			

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BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0803 - * DEFAULT PREP *** **										
Calibration Check (P2I0803-CCV2)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.113	0.00100	mg/kg	0.102		111	80-120			
Toluene	0.116	0.00100	"	0.102		114	80-120			
Ethylbenzene	0.112	0.00100	"	0.102		110	80-120			
Xylene (p/m)	0.232	0.00200	"	0.204		114	80-120			
Xylene (o)	0.120	0.00100	"	0.102		118	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0810 - * DEFAULT PREP *** **										
Blank (P2I0810-BLK1)				Prepared & Analyzed: 09/08/22						
Chloride	ND	1.00	mg/kg							
LCS (P2I0810-BS1)				Prepared & Analyzed: 09/08/22						
Chloride	36.8		mg/kg	40.0		92.1	90-110			
LCS Dup (P2I0810-BSD1)				Prepared & Analyzed: 09/08/22						
Chloride	36.8		mg/kg	40.0		92.0	90-110	0.0923	10	
Calibration Blank (P2I0810-CCB1)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Blank (P2I0810-CCB2)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Check (P2I0810-CCV1)				Prepared & Analyzed: 09/08/22						
Chloride	19.5		mg/kg	20.0		97.4	90-110			
Calibration Check (P2I0810-CCV2)				Prepared & Analyzed: 09/08/22						
Chloride	19.8		mg/kg	20.0		99.0	90-110			
Calibration Check (P2I0810-CCV3)				Prepared & Analyzed: 09/08/22						
Chloride	19.6		mg/kg	20.0		97.9	90-110			
Matrix Spike (P2I0810-MS1)		**Source: 2I08001-01**		Prepared & Analyzed: 09/08/22						
Chloride	7700	10.9	mg/kg dry	543	7230	86.9	80-120			
Matrix Spike (P2I0810-MS2)		**Source: 2I08001-11**		Prepared & Analyzed: 09/08/22						
Chloride	17800	26.0	mg/kg dry	1300	16400	109	80-120			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0810 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2I0810-MSD1)	**Source: 2I08001-01**			Prepared & Analyzed: 09/08/22						
Chloride	7620	10.9	mg/kg dry	543	7230	70.9	80-120	1.13	20	QM-05
Matrix Spike Dup (P2I0810-MSD2)	**Source: 2I08001-11**			Prepared & Analyzed: 09/08/22						
Chloride	17800	26.0	mg/kg dry	1300	16400	109	80-120	0.0366	20	
Batch P2I0811 - * DEFAULT PREP *** **										
Blank (P2I0811-BLK1)				Prepared & Analyzed: 09/08/22						
Chloride	ND	1.00	mg/kg							
LCS (P2I0811-BS1)				Prepared & Analyzed: 09/08/22						
Chloride	38.5		mg/kg	40.0		96.3	90-110			
LCS Dup (P2I0811-BSD1)				Prepared & Analyzed: 09/08/22						
Chloride	38.1		mg/kg	40.0		95.3	90-110	1.00	10	
Calibration Blank (P2I0811-CCB1)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Blank (P2I0811-CCB2)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Check (P2I0811-CCV1)				Prepared & Analyzed: 09/08/22						
Chloride	19.6		mg/kg	20.0		97.9	90-110			
Calibration Check (P2I0811-CCV2)				Prepared & Analyzed: 09/08/22						
Chloride	19.9		mg/kg	20.0		99.3	90-110			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0811 - * DEFAULT PREP *** **										
Calibration Check (P2I0811-CCV3)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	19.9		mg/kg	20.0		99.7	90-110			
Matrix Spike (P2I0811-MS1)		Source: 2I08001-21		Prepared & Analyzed: 09/08/22						
Chloride	12400	26.3	mg/kg dry	1320	11300	88.3	80-120			
Matrix Spike (P2I0811-MS2)		Source: 2I08001-31		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	12100	26.9	mg/kg dry	1340	11000	85.3	80-120			
Matrix Spike Dup (P2I0811-MSD1)		Source: 2I08001-21		Prepared & Analyzed: 09/08/22						
Chloride	12600	26.3	mg/kg dry	1320	11300	101	80-120	1.34	20	
Matrix Spike Dup (P2I0811-MSD2)		Source: 2I08001-31		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	12100	26.9	mg/kg dry	1340	11000	82.9	80-120	0.265	20	
Batch P2I0902 - * DEFAULT PREP *** **										
Blank (P2I0902-BLK1)				Prepared & Analyzed: 09/09/22						
% Moisture	ND	0.1	%							
Blank (P2I0902-BLK2)				Prepared & Analyzed: 09/09/22						
% Moisture	ND	0.1	%							
Duplicate (P2I0902-DUP1)		Source: 2I07002-03		Prepared & Analyzed: 09/09/22						
% Moisture	13.0	0.1	%		5.0			88.9	20	R3
Duplicate (P2I0902-DUP2)		Source: 2I08001-06		Prepared & Analyzed: 09/09/22						
% Moisture	9.0	0.1	%		9.0			0.00	20	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0902 - * DEFAULT PREP *** **										
Duplicate (P2I0902-DUP3)		**Source: 2I08001-21**		Prepared & Analyzed: 09/09/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2I0902-DUP4)		**Source: 2I08001-31**		Prepared & Analyzed: 09/09/22						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Batch P2I0903 - * DEFAULT PREP *** **										
Blank (P2I0903-BLK1)				Prepared & Analyzed: 09/09/22						
% Moisture	ND	0.1	%							
Duplicate (P2I0903-DUP1)		**Source: 2I08001-38**		Prepared & Analyzed: 09/09/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2I0903-DUP2)		**Source: 2I07011-07**		Prepared & Analyzed: 09/09/22						
% Moisture	6.0	0.1	%		7.0			15.4	20	

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0806 - TX 1005										
Blank (P2I0806-BLK1)				Prepared & Analyzed: 09/08/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*85.2*		"	*100*		*85.2*	*70-130*			
Surrogate: o-Terphenyl	*44.5*		"	*50.0*		*89.0*	*70-130*			
LCS (P2I0806-BS1)				Prepared & Analyzed: 09/08/22						
C6-C12	768	25.0	mg/kg	1000		76.8	75-125			
>C12-C28	788	25.0	"	1000		78.8	75-125			
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*48.8*		"	*50.0*		*97.5*	*70-130*			
LCS Dup (P2I0806-BSD1)				Prepared & Analyzed: 09/08/22						
C6-C12	760	25.0	mg/kg	1000		76.0	75-125	1.14	20	
>C12-C28	781	25.0	"	1000		78.1	75-125	0.883	20	
Surrogate: 1-Chlorooctane	*119*		"	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*48.4*		"	*50.0*		*96.8*	*70-130*			
Calibration Check (P2I0806-CCV1)				Prepared & Analyzed: 09/08/22						
C6-C12	431	25.0	mg/kg	500		86.3	85-115			
>C12-C28	430	25.0	"	500		85.9	85-115			
Surrogate: 1-Chlorooctane	*106*		"	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		"	*50.0*		*93.3*	*70-130*			
Calibration Check (P2I0806-CCV2)				Prepared & Analyzed: 09/08/22						
C6-C12	426	25.0	mg/kg	500		85.2	85-115			
>C12-C28	432	25.0	"	500		86.4	85-115			
Surrogate: 1-Chlorooctane	*110*		"	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*49.3*		"	*50.0*		*98.5*	*70-130*			

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0806 - TX 1005										
Matrix Spike (P2I0806-MS1)	**Source: 2I08001-20**			Prepared: 09/08/22 Analyzed: 09/09/22						
C6-C12	831	26.9	mg/kg dry	1080	17.7	75.6	75-125			
>C12-C28	835	26.9	"	1080	25.9	75.2	75-125			
Surrogate: 1-Chlorooctane	*116*		*"*	*108*		*108*	*70-130*			
Surrogate: o-Terphenyl	*48.2*		*"*	*53.8*		*89.7*	*70-130*			
Matrix Spike Dup (P2I0806-MSD1)	**Source: 2I08001-20**			Prepared: 09/08/22 Analyzed: 09/09/22						
C6-C12	813	26.9	mg/kg dry	1080	17.7	74.0	75-125	2.13	20	QM-05
>C12-C28	814	26.9	"	1080	25.9	73.2	75-125	2.65	20	QM-05
Surrogate: 1-Chlorooctane	*120*		*"*	*108*		*111*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		*"*	*53.8*		*90.5*	*70-130*			
Batch P2I0807 - TX 1005										
Blank (P2I0807-BLK1)				Prepared & Analyzed: 09/08/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*78.9*		*"*	*100*		*78.9*	*70-130*			
Surrogate: o-Terphenyl	*35.3*		*"*	*50.0*		*70.6*	*70-130*			
LCS (P2I0807-BS1)				Prepared & Analyzed: 09/08/22						
C6-C12	770	25.0	mg/kg	1000		77.0	75-125			
>C12-C28	899	25.0	"	1000		89.9	75-125			
Surrogate: 1-Chlorooctane	*96.3*		*"*	*100*		*96.3*	*70-130*			
Surrogate: o-Terphenyl	*41.1*		*"*	*50.0*		*82.2*	*70-130*			
LCS Dup (P2I0807-BSD1)				Prepared & Analyzed: 09/08/22						
C6-C12	755	25.0	mg/kg	1000		75.5	75-125	1.98	20	
>C12-C28	754	25.0	"	1000		75.4	75-125	17.6	20	
Surrogate: 1-Chlorooctane	*98.9*		*"*	*100*		*98.9*	*70-130*			
Surrogate: o-Terphenyl	*41.2*		*"*	*50.0*		*82.3*	*70-130*			

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0807 - TX 1005										
Calibration Check (P2I0807-CCV1)				Prepared & Analyzed: 09/08/22						
C6-C12	471	25.0	mg/kg	500		94.1	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*86.2*		"	*100*		*86.2*	*70-130*			
Surrogate: o-Terphenyl	*39.4*		"	*50.0*		*78.8*	*70-130*			
Calibration Check (P2I0807-CCV2)				Prepared & Analyzed: 09/08/22						
C6-C12	447	25.0	mg/kg	500		89.3	85-115			
>C12-C28	428	25.0	"	500		85.6	85-115			
Surrogate: 1-Chlorooctane	*86.9*		"	*100*		*86.9*	*70-130*			
Surrogate: o-Terphenyl	*39.1*		"	*50.0*		*78.3*	*70-130*			
Calibration Check (P2I0807-CCV3)				Prepared: 09/08/22 Analyzed: 09/09/22						
C6-C12	459	25.0	mg/kg	500		91.9	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*87.2*		"	*100*		*87.2*	*70-130*			
Surrogate: o-Terphenyl	*40.3*		"	*50.0*		*80.6*	*70-130*			
Matrix Spike (P2I0807-MS1)	**Source: 2I08001-38**			Prepared: 09/08/22 Analyzed: 09/09/22						
C6-C12	991	26.3	mg/kg dry	1050	ND	94.1	75-125			
>C12-C28	1050	26.3	"	1050	505	52.1	75-125			QM-05
Surrogate: 1-Chlorooctane	*88.2*		"	*105*		*83.8*	*70-130*			
Surrogate: o-Terphenyl	*45.2*		"	*52.6*		*85.9*	*70-130*			
Matrix Spike Dup (P2I0807-MSD1)	**Source: 2I08001-38**			Prepared: 09/08/22 Analyzed: 09/09/22						
C6-C12	948	26.3	mg/kg dry	1050	ND	90.1	75-125	4.40	20	
>C12-C28	1100	26.3	"	1050	505	56.4	75-125	7.84	20	QM-05
Surrogate: 1-Chlorooctane	*89.7*		"	*105*		*85.2*	*70-130*			
Surrogate: o-Terphenyl	*45.5*		"	*52.6*		*86.4*	*70-130*			

Larson & Associates, Inc.	Project: SD 24 13 Fed P415
P.O. Box 50685	Project Number: 22-0105-13
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/9/2022

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project:	SD 24 13 Fed P415
P.O. Box 50685	Project Number:	22-0105-13
Midland TX, 79710	Project Manager:	Mark Larson

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 9/8/2022 PAGE 1 OF 3

PO#: LAB WORK ORDER#: 2I08001

PROJECT LOCATION OR NAME: SD 24 13 Fed P915

LAI PROJECT #: 22-0105-13 COLLECTOR: RW

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-1, 0	1	9/7/22	10:20	S	1				X		X			X	X	X														X	
S-1, 0.5	2	"	1021	"	"				"		"			"	"	"														"	
S-2, 0	3	"	1022	"	"				"		"			"	"	"														"	
S-2, 0.5	4	"	1023	"	"				"		"			"	"	"														"	
S-3, 0	5	"	1024	"	"				"		"			"	"	"														"	
S-3, 0.5	6	"	1025	"	"				"		"			"	"	"														"	
S-4, 0	7	"	1026	"	"				"		"			"	"	"														"	
S-4, 0.5	8	"	1027	"	"				"		"			"	"	"														"	
S-5, 0	9	"	1028	"	"				"		"			"	"	"														"	
S-5, 0.5	10	"	1029	"	"				"		"			"	"	"														"	
S-6, 0	11	"	1030	"	"				"		"			"	"	"														"	
S-6, 0.5	12	"	1031	"	"				"		"			"	"	"														"	
S-7, 0	13	"	1032	"	"				"		"			"	"	"														"	
S-7, 0.5	14	"	1033	"	"				"		"			"	"	"														"	
S-8, 0	15	"	1034	"	"				"		"			"	"	"														"	
TOTAL																															

RELINQUISHED BY:(Signature) DATE/TIME 9/8/22 0836 RECEIVED BY: (Signature) Maddison Huff 9/8/22

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY: RF LI
RECEIVING TEMP: -10.6 THERM#:
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

№ 1905

CHAIN-OF-CUSTOD

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

DATE: 9/8/2022 PAGE 2 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: SD 24 13 Fed P415

LAI PROJECT #: 22-0105-13 COLLECTOR: RN

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST / NM

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 ~~8021~~ | DIESEL - MOD 8015 ~~8021~~ | OIL - MOD 8015 ~~8021~~ | 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 ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ~~8021~~ 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 ~~8021~~	DIESEL - MOD 8015 ~~8021~~	OIL - MOD 8015 ~~8021~~	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 ☐	pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ~~8021~~ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-8, 0.5	16	9/7/22	1035	S	1				X		X		X	X	X														X		
S-9, 0	17		1036																												
S-9, 0.5	18		1037																												
S-10, 0	19		1038																												
S-10, 0.5	20		1039																												
S-11, 0	21		1040																												
S-11, 0.5	22		1041																												
S-12, 0	23		1042																												
S-12, 0.5	24		1043																												
S-13, 0	25		1044																												
S-13, 0.5	26		1045																												
S-14, 0	27		1046																												
S-14, 0.5	28		1047																												
S-15, 0	29		1048																												
S-15, 0.5	30		1049																												
TOTAL																															

RELINQUISHED BY:(Signature) DATE/TIME 9/8/22 0836 RECEIVED BY: (Signature) Maddison Hunt 8/9/22

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -10.6 THERM#:
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

CHAIN-OF-CUSTOD

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

Data Reported to:

DATE: 9/8/2022 PAGE 3 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: SD 24 13 Fed Pad 5

LAI PROJECT #: 22-0105-13 COLLECTOR: RW

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 ☐	pH ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-16, 0	31	9/7/22	1050	S	1				X		X		X	X	X																										X			
S-16, 0.5	32		1051																																								
S-17, 0	33		1052																																								
S-17, 0.5	34		1053																																								
S-18, 0-0.5	35		1054																																								
S-19, 0-0.5	36		1055																																								
S-20, 0-0.5	37		1056																																								
S-21, 0-0.5	38		1057																																								

TOTAL

RELINQUISHED BY:(Signature) DATE/TIME 9/8/22 0836 RECEIVED BY: (Signature) Maddison Hulse 9/8/22

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -10.0 CF / IR THERM#:
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes		Notes
✓	Chain of custody present?	
✓	Chain of custody signed/dated/time when relinquished and received?	
✓	Sample date/time present on COC for all samples?	
✓	Samplers name present on COC?	
✓	Short hold time analysis (<72 hr)?	
✓	Sample containers intact?	
✓	Custody seals intact on sample bottles?	
✓	Samples in proper container/bottle?	
✓	Sufficient sample volume for indicated test(s)?	
✓	All samples received within holding time?	
✓	Subcontract lab within applicable holding time?	
✓	Analysis requested for all samples submitted?	
N/A	Shipping container/cooler in good condition?	
N/A	Custody seals intact on shipping container/cooler?	

Login Notes:
2I0801 -10.6

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted

Name:

Date/Time:

NC Initiated by: _____ Approved by: _____

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/23/2022 3:27:59 PM

JOB DESCRIPTION

SD P415
SDG NUMBER 22-0105-13

JOB NUMBER

880-21516-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Client: Larson & Associates, Inc.
Project/Site: SD P415

Laboratory Job ID: 880-21516-1
SDG: 22-0105-13

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Job ID: 880-21516-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21516-1

Receipt
The samples were received on 11/14/2022 11:01 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 was 0.5º C.

Receipt Exceptions
The following samples were received and analyzed from a bulk soil jar: S-1, 1' (880-21516-1), S-1, 3' (880-21516-2), S-1, 5' (880-21516-3), S-2, 1' (880-21516-4), S-2, 3' (880-21516-5), S-2, 5' (880-21516-6), S-5, 1' (880-21516-7), S-5, 3' (880-21516-8), S-5, 5' (880-21516-9), S-6, 1' (880-21516-10), S-6, 3' (880-21516-11), S-6, 5' (880-21516-12), S-7, 1' (880-21516-13), S-7, 3' (880-21516-14), S-7, 5' (880-21516-15), S-8, 1' (880-21516-16), S-8, 3' (880-21516-17), S-8, 5' (880-21516-18), S-9, 1' (880-21516-19), S-9, 3' (880-21516-20), S-9, 4.5' (880-21516-21), S-10, 1' (880-21516-22), S-10, 3' (880-21516-23), S-10, 4.5' (880-21516-24), S-11, 1' (880-21516-25), S-11, 3' (880-21516-26), S-11, 4.5' (880-21516-27), S-12, 1' (880-21516-28), S-12, 3' (880-21516-29), S-12, 5' (880-21516-30), S-13, 1' (880-21516-31), S-13, 3' (880-21516-32), S-13, 5' (880-21516-33), S-14, 1' (880-21516-34), S-14, 3' (880-21516-35), S-14, 5' (880-21516-36), S-15, 1' (880-21516-37), S-15, 3' (880-21516-38), S-15, 5' (880-21516-39), S-16, 1' (880-21516-40), S-16, 3' (880-21516-41), S-16, 5' (880-21516-42), S-17, 1' (880-21516-43), S-17, 3' (880-21516-44), S-17, 5' (880-21516-45), S-21, 1' (880-21516-46), S-21, 3' (880-21516-47), S-21, 5' (880-21516-48) and S-22, 0-1' (880-21516-49).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39722 and analytical batch 880-39930 was outside the upper control limits.

Method 8021B: The method blank for preparation batch 880-39722 and analytical batch 880-39930 contained m,p-Xylenes 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (880-21516-A-48-C MS) and (880-21516-A-48-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-39849/1-A) and (LCSD 880-39849/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-22, 0-1' (880-21516-49). 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 880-40172/20). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-39849 and analytical batch 880-40172 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The method blank for preparation batch 880-39849 and analytical batch 880-40172 contained m,p-Xylenes 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.

GC Semi VOA
Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39724 and analytical batch 880-39981 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Job ID: 880-21516-1 (Continued)

Laboratory: Eurofins Midland (Continued)

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39704 and 880-39704 and analytical batch 880-39999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39703, 880-39703, 880-39703 and 880-39703 and analytical batch 880-40001 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: S-9, 3' (880-21516-20), S-10, 4.5' (880-21516-24), S-11, 1' (880-21516-25), S-11, 3' (880-21516-26), S-11, 4.5' (880-21516-27), S-12, 1' (880-21516-28), S-12, 3' (880-21516-29), S-12, 5' (880-21516-30), S-13, 1' (880-21516-31), S-13, 3' (880-21516-32), S-13, 5' (880-21516-33), (880-21516-A-24-C MS) and (880-21516-A-24-D MSD).

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

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-1, 1'
Date Collected: 11/10/22 10:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-1
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		11/16/22 14:22	11/20/22 09:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/16/22 14:22	11/20/22 09:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/16/22 14:22	11/20/22 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/16/22 14:22*	*11/20/22 09:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/16/22 14:22*	*11/20/22 09:55*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 11:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*11/16/22 09:19*	*11/17/22 11:11*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*11/16/22 09:19*	*11/17/22 11:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**664**		4.96		mg/Kg			11/19/22 18:44	1

Client Sample ID: S-1, 3'
Date Collected: 11/10/22 10:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-2
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		11/16/22 14:22	11/20/22 10:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 10:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/16/22 14:22*	*11/20/22 10:22*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/16/22 14:22*	*11/20/22 10:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-1, 3'
Date Collected: 11/10/22 10:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-2
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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 12:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/16/22 09:19	11/17/22 12:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/16/22 09:19	11/17/22 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*11/16/22 09:19*	*11/17/22 12:16*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*11/16/22 09:19*	*11/17/22 12:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.1**		5.05		mg/Kg			11/19/22 18:50	1

Client Sample ID: S-1, 5'
Date Collected: 11/10/22 10:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-3
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		11/16/22 14:22	11/20/22 10:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 10:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 10:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/16/22 14:22*	*11/20/22 10:48*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/16/22 14:22*	*11/20/22 10:48*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 12:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-1, 5'
Date Collected: 11/10/22 10:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-3
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)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*11/16/22 09:19*	*11/17/22 12:38*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*11/16/22 09:19*	*11/17/22 12:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.8**		5.03		mg/Kg			11/19/22 18:56	1

Client Sample ID: S-2, 1'
Date Collected: 11/10/22 10:45
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-4
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		11/16/22 14:22	11/20/22 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 11:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 11:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/16/22 14:22*	*11/20/22 11:14*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/16/22 14:22*	*11/20/22 11:14*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 13:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 13:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:00*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2410**		25.0		mg/Kg			11/19/22 19:01	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-2, 3'
Date Collected: 11/10/22 10:50
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-5
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		11/16/22 14:22	11/20/22 11:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 11:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 11:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 11:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 11:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/16/22 14:22*	*11/20/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/16/22 14:22*	*11/20/22 11:41*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:22*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**		4.97		mg/Kg			11/19/22 19:18	1

Client Sample ID: S-2, 5'
Date Collected: 11/10/22 10:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-6
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		11/16/22 14:22	11/20/22 12:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 12:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:07*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-2, 5'
Date Collected: 11/10/22 10:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-6
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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:43*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/16/22 09:19*	*11/17/22 13:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.8**		5.05		mg/Kg			11/19/22 19:24	1

Client Sample ID: S-5, 1'
Date Collected: 11/10/22 11:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-7
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		11/16/22 14:22	11/20/22 12:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:22	11/20/22 12:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:22	11/20/22 12:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/16/22 14:22	11/20/22 12:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/16/22 14:22	11/20/22 12:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/16/22 14:22	11/20/22 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:33*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:33*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-5, 1'
Date Collected: 11/10/22 11:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-7
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)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:05*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		25.1		mg/Kg			11/19/22 19:41	5

Client Sample ID: S-5, 3'
Date Collected: 11/10/22 11:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-8
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		11/16/22 14:22	11/20/22 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:59*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/16/22 14:22*	*11/20/22 12:59*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 14:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:27*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.6**		4.97		mg/Kg			11/19/22 19:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-5, 5'
Date Collected: 11/10/22 11:10
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-9
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		11/16/22 14:22	11/20/22 13:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 13:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 13:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 13:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 13:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*11/16/22 14:22*	*11/20/22 13:26*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/16/22 14:22*	*11/20/22 13:26*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:49*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*11/16/22 09:19*	*11/17/22 14:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.9**		4.96		mg/Kg			11/20/22 13:36	1

Client Sample ID: S-6, 1'
Date Collected: 11/10/22 11:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-10
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		11/16/22 14:22	11/20/22 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 13:52	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 13:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/16/22 14:22*	*11/20/22 13:52*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/16/22 14:22*	*11/20/22 13:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-6, 1'
Date Collected: 11/10/22 11:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-10
Matrix: Solid

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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 15:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 15:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*11/16/22 09:19*	*11/17/22 15:11*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*11/16/22 09:19*	*11/17/22 15:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1760**		24.9		mg/Kg			11/19/22 19:53	5

Client Sample ID: S-6, 3'
Date Collected: 11/10/22 11:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-11
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		11/16/22 14:22	11/20/22 15:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 15:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 15:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 15:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 15:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/16/22 14:22*	*11/20/22 15:38*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*11/16/22 14:22*	*11/20/22 15:38*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 16:13	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-6, 3'
Date Collected: 11/10/22 11:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-11
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		11/16/22 09:19	11/17/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:13*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**305**		4.99		mg/Kg			11/19/22 19:59	1

Client Sample ID: S-6, 5'
Date Collected: 11/10/22 11:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-12
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		11/16/22 14:22	11/20/22 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 16:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 16:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/16/22 14:22	11/20/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*11/16/22 14:22*	*11/20/22 16:04*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*11/16/22 14:22*	*11/20/22 16:04*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 16:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:34*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.6**		4.95		mg/Kg			11/20/22 09:40	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-7, 1'
Date Collected: 11/10/22 11:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-13
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		11/16/22 14:22	11/20/22 16:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 16:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 16:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 16:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/16/22 14:22	11/20/22 16:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/16/22 14:22	11/20/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*11/16/22 14:22*	*11/20/22 16:30*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/16/22 14:22*	*11/20/22 16:30*	*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			11/21/22 18:12	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:56*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/16/22 09:19*	*11/17/22 16:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		25.2		mg/Kg			11/19/22 20:06	5

Client Sample ID: S-7, 3'
Date Collected: 11/10/22 11:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-14
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		11/21/22 09:38	11/21/22 12:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/21/22 09:38	11/21/22 12:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/22 09:38	11/21/22 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-7, 3'
Date Collected: 11/10/22 11:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-14
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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 17:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 17:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/16/22 09:19*	*11/17/22 17:18*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/16/22 09:19*	*11/17/22 17:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.7**		5.00		mg/Kg			11/19/22 20:51	1

Client Sample ID: S-7, 5'
Date Collected: 11/10/22 11:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-15
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		11/21/22 09:38	11/21/22 12:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 12:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 12:21	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/21/22 09:38	11/21/22 12:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 12:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/21/22 09:38	11/21/22 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:21*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:21*	*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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 17:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-7, 5'
Date Collected: 11/10/22 11:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-15
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		11/16/22 09:19	11/17/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/16/22 09:19*	*11/17/22 17:39*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*11/16/22 09:19*	*11/17/22 17:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.7**		4.99		mg/Kg			11/20/22 09:57	1

Client Sample ID: S-8, 1'
Date Collected: 11/10/22 11:45
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-16
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		11/21/22 09:38	11/21/22 12:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:42	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/21/22 09:38	11/21/22 12:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/22 09:38	11/21/22 12:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/22 09:38	11/21/22 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:42*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/21/22 09:38*	*11/21/22 12:42*	*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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 18:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 18:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:01*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4970**		49.5		mg/Kg			11/20/22 10:03	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-8, 3'
Date Collected: 11/10/22 11:50
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-17
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		11/21/22 09:38	11/21/22 13:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:38	11/21/22 13:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:38	11/21/22 13:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/21/22 09:38	11/21/22 13:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/22 09:38	11/21/22 13:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/22 09:38	11/21/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:02*	*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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:19	11/17/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:23*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.55**		0.0501		mg/Kg			11/20/22 10:09	1

Client Sample ID: S-8, 5'
Date Collected: 11/10/22 11:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-18
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		11/21/22 09:38	11/21/22 13:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:38	11/21/22 13:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:38	11/21/22 13:23	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/21/22 09:38	11/21/22 13:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/22 09:38	11/21/22 13:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/22 09:38	11/21/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-8, 5'
Date Collected: 11/10/22 11:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-18
Matrix: Solid

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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 18:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 18:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:44*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*11/16/22 09:19*	*11/17/22 18:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.9**		4.98		mg/Kg			11/20/22 10:14	1

Client Sample ID: S-9, 1'
Date Collected: 11/10/22 12:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-19
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		11/21/22 09:38	11/21/22 13:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 13:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 13:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 13:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 13:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/21/22 09:38*	*11/21/22 13:43*	*1*

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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:19	11/17/22 19:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-9, 1'
Date Collected: 11/10/22 12:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-19
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		11/16/22 09:19	11/17/22 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*11/16/22 09:19*	*11/17/22 19:06*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*11/16/22 09:19*	*11/17/22 19:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2830**		24.9		mg/Kg			11/20/22 10:31	5

Client Sample ID: S-9, 3'
Date Collected: 11/10/22 12:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-20
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		11/21/22 09:38	11/21/22 14:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 14:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 14:04	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/21/22 09:38	11/21/22 14:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/21/22 09:38	11/21/22 14:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/21/22 09:38	11/21/22 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/21/22 09:38*	*11/21/22 14:04*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/21/22 09:38*	*11/21/22 14:04*	*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			11/22/22 15:45	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			11/18/22 10:02	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		11/16/22 09:19	11/17/22 19:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/16/22 09:19	11/17/22 19:27	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/16/22 09:19	11/17/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/16/22 09:19*	*11/17/22 19:27*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/16/22 09:19*	*11/17/22 19:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2790**		24.8		mg/Kg			11/20/22 13:53	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-9, 4.5'

Date Collected: 11/10/22 12:10
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-21
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		11/17/22 09:35	11/19/22 07:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 07:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 07:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 07:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 07:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/17/22 09:35*	*11/19/22 07:39*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/17/22 09:35*	*11/19/22 07:39*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 11:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/16/22 09:22*	*11/17/22 11:11*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/16/22 09:22*	*11/17/22 11:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6440**		50.0		mg/Kg			11/20/22 10:43	10

Client Sample ID: S-10, 1'

Date Collected: 11/10/22 12:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-22
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		11/17/22 09:35	11/19/22 08:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 08:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 08:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 08:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 08:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:00*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-10, 1'
Date Collected: 11/10/22 12:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-22
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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 12:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/16/22 09:22	11/17/22 12:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/16/22 09:22	11/17/22 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*11/16/22 09:22*	*11/17/22 12:16*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*11/16/22 09:22*	*11/17/22 12:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2220**		25.0		mg/Kg			11/20/22 10:48	5

Client Sample ID: S-10, 3'
Date Collected: 11/10/22 12:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-23
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		11/17/22 09:35	11/19/22 08:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 08:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 08:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 09:35	11/19/22 08:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 08:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 09:35	11/19/22 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:20*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:20*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 12:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-10, 3'
Date Collected: 11/10/22 12:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-23
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		11/16/22 09:22	11/17/22 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/16/22 09:22*	*11/17/22 12:38*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/16/22 09:22*	*11/17/22 12:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.6**		4.95		mg/Kg			11/20/22 10:54	1

Client Sample ID: S-10, 4.5'
Date Collected: 11/10/22 12:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-24
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		11/17/22 09:35	11/19/22 08:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 08:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 08:41	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 09:35	11/19/22 08:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 08:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 09:35	11/19/22 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:41*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/17/22 09:35*	*11/19/22 08:41*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 13:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 13:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:00*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.4**	**F1**	4.97		mg/Kg			11/20/22 11:00	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-11, 1'
Date Collected: 11/10/22 12:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-25
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		11/17/22 09:35	11/19/22 09:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 09:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 09:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 09:35	11/19/22 09:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 09:35	11/19/22 09:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 09:35	11/19/22 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:01*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:01*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:22*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:22*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2000**		25.0		mg/Kg			11/20/22 11:17	5

Client Sample ID: S-11, 3'
Date Collected: 11/10/22 12:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-26
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		11/17/22 09:35	11/19/22 09:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 09:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 09:22	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 09:35	11/19/22 09:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 09:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 09:35	11/19/22 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:22*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-11, 3'
Date Collected: 11/10/22 12:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-26
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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:43*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*11/16/22 09:22*	*11/17/22 13:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.5**		4.99		mg/Kg			11/20/22 11:22	1

Client Sample ID: S-11, 4.5'
Date Collected: 11/10/22 12:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-27
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		11/17/22 09:35	11/19/22 09:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 09:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 09:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 09:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 09:35	11/19/22 09:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 09:35	11/19/22 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:42*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/17/22 09:35*	*11/19/22 09:42*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 14:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-11, 4.5'
Date Collected: 11/10/22 12:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-27
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		11/16/22 09:22	11/17/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:05*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.9**		5.01		mg/Kg			11/20/22 11:39	1

Client Sample ID: S-12, 1'
Date Collected: 11/11/22 09:56
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-28
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		11/17/22 15:13	11/19/22 22:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/19/22 22:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/19/22 22:18	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/19/22 22:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/19/22 22:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/19/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:18*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:18*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 14:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 14:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:27*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1110**		4.98		mg/Kg			11/20/22 11:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-12, 3'
Date Collected: 11/11/22 09:57
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-29
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		11/17/22 15:13	11/19/22 22:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/19/22 22:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/19/22 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:39*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 14:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:49*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/16/22 09:22*	*11/17/22 14:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.8**		4.99		mg/Kg			11/20/22 11:51	1

Client Sample ID: S-12, 5'
Date Collected: 11/11/22 09:58
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-30
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		11/17/22 15:13	11/19/22 22:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/19/22 22:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/19/22 22:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/19/22 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:59*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/17/22 15:13*	*11/19/22 22:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-12, 5'
Date Collected: 11/11/22 09:58
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-30
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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 15:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 15:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*11/16/22 09:22*	*11/17/22 15:11*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*11/16/22 09:22*	*11/17/22 15:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.1**		4.96		mg/Kg			11/20/22 11:56	1

Client Sample ID: S-13, 1'
Date Collected: 11/11/22 10:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-31
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		11/17/22 15:13	11/19/22 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 23:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 23:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/19/22 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 23:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/19/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 15:13*	*11/19/22 23:20*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/17/22 15:13*	*11/19/22 23:20*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 16:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 16:13	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-13, 1'
Date Collected: 11/11/22 10:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-31
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		11/16/22 09:22	11/17/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:13*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2270**		25.0		mg/Kg			11/20/22 12:02	5

Client Sample ID: S-13, 3'
Date Collected: 11/11/22 10:06
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-32
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		11/17/22 15:13	11/19/22 23:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/17/22 15:13	11/19/22 23:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/17/22 15:13	11/19/22 23:40	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		11/17/22 15:13	11/19/22 23:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/17/22 15:13	11/19/22 23:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/17/22 15:13	11/19/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/17/22 15:13*	*11/19/22 23:40*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 15:13*	*11/19/22 23:40*	*1*

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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 16:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:34*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:34*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.4**		5.05		mg/Kg			11/20/22 12:08	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-13, 5'
Date Collected: 11/11/22 10:07
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-33
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		11/17/22 15:13	11/20/22 00:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 00:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 00:00	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 00:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 00:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:00*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:56*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*11/16/22 09:22*	*11/17/22 16:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		4.99		mg/Kg			11/20/22 12:13	1

Client Sample ID: S-14, 1'
Date Collected: 11/11/22 10:11
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-34
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		11/17/22 15:13	11/20/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 00:21	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 00:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-14, 1'
Date Collected: 11/11/22 10:11
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-34
Matrix: Solid

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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/16/22 09:22*	*11/17/22 17:18*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*11/16/22 09:22*	*11/17/22 17:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**	**F1**	25.0		mg/Kg			11/19/22 18:17	5

Client Sample ID: S-14, 3'
Date Collected: 11/11/22 10:12
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-35
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		11/17/22 15:13	11/20/22 00:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 00:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 00:41	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 00:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 00:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:41*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/17/22 15:13*	*11/20/22 00:41*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 17:39	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-14, 3'
Date Collected: 11/11/22 10:12
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-35
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		11/16/22 09:22	11/17/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*11/16/22 09:22*	*11/17/22 17:39*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*11/16/22 09:22*	*11/17/22 17:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.1**		4.99		mg/Kg			11/19/22 18:39	1

Client Sample ID: S-14, 5'
Date Collected: 11/11/22 10:13
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-36
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		11/17/22 15:13	11/20/22 01:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 01:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 01:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 01:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 01:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 15:13*	*11/20/22 01:02*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 15:13*	*11/20/22 01:02*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 18:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:01*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.2**		4.95		mg/Kg			11/19/22 18:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-15, 1'
Date Collected: 11/11/22 10:18
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-37
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		11/17/22 15:13	11/20/22 01:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 01:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 01:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 01:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 01:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/17/22 15:13*	*11/20/22 01:22*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/17/22 15:13*	*11/20/22 01:22*	*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			11/21/22 15:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.5**		49.9		mg/Kg			11/18/22 10:34	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		11/16/22 09:22	11/17/22 18:23	1
Diesel Range Organics (Over C10-C28)	**61.5**		49.9		mg/Kg		11/16/22 09:22	11/17/22 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:23*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.1**		0.251		mg/Kg			11/19/22 18:53	5

Client Sample ID: S-15, 3'
Date Collected: 11/11/22 10:19
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-38
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		11/17/22 15:13	11/20/22 03:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 03:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 03:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 03:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 03:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/17/22 15:13*	*11/20/22 03:12*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/17/22 15:13*	*11/20/22 03:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-15, 3'
Date Collected: 11/11/22 10:19
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-38
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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 18:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 18:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:44*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*11/16/22 09:22*	*11/17/22 18:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.6**		4.98		mg/Kg			11/19/22 19:00	1

Client Sample ID: S-15, 5'
Date Collected: 11/11/22 10:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-39
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		11/17/22 15:13	11/20/22 03:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 03:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 03:32	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 03:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 03:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 15:13*	*11/20/22 03:32*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/17/22 15:13*	*11/20/22 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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 09:22	11/17/22 19:06	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-15, 5'
Date Collected: 11/11/22 10:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-39
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		11/16/22 09:22	11/17/22 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*11/16/22 09:22*	*11/17/22 19:06*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/16/22 09:22*	*11/17/22 19:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.5**		4.97		mg/Kg			11/19/22 19:21	1

Client Sample ID: S-16, 1'
Date Collected: 11/11/22 10:24
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-40
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		11/17/22 15:13	11/20/22 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 03:52	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 03:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/17/22 15:13*	*11/20/22 03:52*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/17/22 15:13*	*11/20/22 03:52*	*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			11/21/22 15:09	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			11/18/22 10:34	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		11/16/22 09:22	11/17/22 19:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/16/22 09:22	11/17/22 19:27	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/16/22 09:22	11/17/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*11/16/22 09:22*	*11/17/22 19:27*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*11/16/22 09:22*	*11/17/22 19:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3390**		24.8		mg/Kg			11/19/22 19:29	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-16, 3'

Date Collected: 11/11/22 10:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-41

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		11/17/22 15:13	11/20/22 04:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 04:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 04:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 04:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 15:13	11/20/22 04:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 15:13	11/20/22 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:13*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:13*	*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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 14:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 14:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/16/22 11:27*	*11/20/22 14:15*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/16/22 11:27*	*11/20/22 14:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		5.00		mg/Kg			11/19/22 19:36	1

Client Sample ID: S-16, 5'

Date Collected: 11/11/22 10:26
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-42

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		11/17/22 15:13	11/20/22 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 04:33	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 04:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:13	11/20/22 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:33*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-16, 5'
Date Collected: 11/11/22 10:26
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-42
Matrix: Solid

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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*11/16/22 11:27*	*11/20/22 14:36*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/16/22 11:27*	*11/20/22 14:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.6**		4.99		mg/Kg			11/19/22 19:43	1

Client Sample ID: S-17, 1'
Date Collected: 11/11/22 10:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-43
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		11/17/22 15:13	11/20/22 04:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 04:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 04:54	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 04:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 04:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:54*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/17/22 15:13*	*11/20/22 04:54*	*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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 15:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 15:17	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-17, 1'
Date Collected: 11/11/22 10:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-43
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		11/16/22 11:27	11/20/22 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*11/16/22 11:27*	*11/20/22 15:17*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/16/22 11:27*	*11/20/22 15:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**713**		4.95		mg/Kg			11/19/22 19:50	1

Client Sample ID: S-17, 3'
Date Collected: 11/11/22 10:31
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-44
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		11/17/22 15:13	11/20/22 05:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 05:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 05:14	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 15:13	11/20/22 05:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/20/22 05:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 15:13	11/20/22 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:14*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:14*	*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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 15:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 15:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/16/22 11:27*	*11/20/22 15:39*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*11/16/22 11:27*	*11/20/22 15:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.0**		4.97		mg/Kg			11/19/22 19:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-17, 5'
Date Collected: 11/11/22 10:32
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-45
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		11/17/22 15:13	11/20/22 05:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 05:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 05:34	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 05:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 15:13	11/20/22 05:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 15:13	11/20/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:34*	*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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 16:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 16:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:00*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.0**		5.00		mg/Kg			11/19/22 20:19	1

Client Sample ID: S-21, 1'
Date Collected: 11/11/22 10:36
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-46
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		11/17/22 15:13	11/20/22 05:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 05:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 05:55	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/17/22 15:13	11/20/22 05:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 05:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/17/22 15:13	11/20/22 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:55*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/17/22 15:13*	*11/20/22 05:55*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-21, 1'
Date Collected: 11/11/22 10:36
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-46
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			11/21/22 15:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.3**		50.0		mg/Kg			11/21/22 09:06	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		11/16/22 11:27	11/20/22 16:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 16:21	1
Oil Range Organics (Over C28-C36)	**50.3**		50.0		mg/Kg		11/16/22 11:27	11/20/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:21*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.6**		4.99		mg/Kg			11/19/22 20:26	1

Client Sample ID: S-21, 3'
Date Collected: 11/11/22 10:37
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-47
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		11/17/22 15:13	11/20/22 06:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 06:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 06:15	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/17/22 15:13	11/20/22 06:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 15:13	11/20/22 06:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/17/22 15:13	11/20/22 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 15:13*	*11/20/22 06:15*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/17/22 15:13*	*11/20/22 06:15*	*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			11/21/22 15:09	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 16:42	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-21, 3'
Date Collected: 11/11/22 10:37
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-47
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 16:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:42*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/16/22 11:27*	*11/20/22 16:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.4**		5.01		mg/Kg			11/19/22 20:47	1

Client Sample ID: S-21, 5'
Date Collected: 11/11/22 10:38
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-48
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		11/17/22 15:36	11/22/22 15:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:35	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		11/17/22 15:36	11/22/22 15:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 15:36	11/22/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/17/22 15:36*	*11/22/22 15:35*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*11/17/22 15:36*	*11/22/22 15:35*	*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			11/23/22 14:01	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 17:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/16/22 11:27	11/20/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/16/22 11:27*	*11/20/22 17:20*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/16/22 11:27*	*11/20/22 17:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.4**		4.98		mg/Kg			11/19/22 20:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-22, 0-1'

Date Collected: 11/11/22 10:43
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-49

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		11/17/22 15:36	11/22/22 16:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 16:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 16:01	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		11/17/22 15:36	11/22/22 16:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 16:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 15:36	11/22/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*11/17/22 15:36*	*11/22/22 16:01*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 15:36*	*11/22/22 16:01*	*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			11/23/22 14:01	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			11/21/22 09:06	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		11/16/22 11:27	11/20/22 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 17:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*11/16/22 11:27*	*11/20/22 17:39*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/16/22 11:27*	*11/20/22 17:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		4.99		mg/Kg			11/19/22 21:01	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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)
880-21516-1	S-1, 1'	106	93
880-21516-1 MS	S-1, 1'	110	101
880-21516-1 MSD	S-1, 1'	107	101
880-21516-2	S-1, 3'	111	91
880-21516-3	S-1, 5'	125	93
880-21516-4	S-2, 1'	120	96
880-21516-5	S-2, 3'	114	92
880-21516-6	S-2, 5'	122	98
880-21516-7	S-5, 1'	122	86
880-21516-8	S-5, 3'	123	86
880-21516-9	S-5, 5'	127	95
880-21516-10	S-6, 1'	121	93
880-21516-11	S-6, 3'	112	85
880-21516-12	S-6, 5'	129	87
880-21516-13	S-7, 1'	130	90
880-21516-14	S-7, 3'	90	99
880-21516-14 MS	S-7, 3'	98	112
880-21516-14 MSD	S-7, 3'	106	122
880-21516-15	S-7, 5'	104	107
880-21516-16	S-8, 1'	98	112
880-21516-17	S-8, 3'	102	98
880-21516-18	S-8, 5'	91	106
880-21516-19	S-9, 1'	106	98
880-21516-20	S-9, 3'	110	97
880-21516-21	S-9, 4.5'	86	113
880-21516-22	S-10, 1'	77	103
880-21516-23	S-10, 3'	86	109
880-21516-24	S-10, 4.5'	81	102
880-21516-25	S-11, 1'	95	111
880-21516-26	S-11, 3'	87	109
880-21516-27	S-11, 4.5'	93	112
880-21516-28	S-12, 1'	79	110
880-21516-28 MS	S-12, 1'	92	99
880-21516-28 MSD	S-12, 1'	90	98
880-21516-29	S-12, 3'	81	106
880-21516-30	S-12, 5'	88	117
880-21516-31	S-13, 1'	87	108
880-21516-32	S-13, 3'	84	104
880-21516-33	S-13, 5'	88	102
880-21516-34	S-14, 1'	84	104
880-21516-35	S-14, 3'	89	109
880-21516-36	S-14, 5'	93	106
880-21516-37	S-15, 1'	98	108
880-21516-38	S-15, 3'	88	108
880-21516-39	S-15, 5'	87	111
880-21516-40	S-16, 1'	96	114
880-21516-41	S-16, 3'	92	113
880-21516-42	S-16, 5'	93	114
880-21516-43	S-17, 1'	96	117

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21516-1
Project/Site: SD P415 SDG: 22-0105-13

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21516-44	S-17, 3'	89	112
880-21516-45	S-17, 5'	94	111
880-21516-46	S-21, 1'	89	109
880-21516-47	S-21, 3'	92	112
880-21516-48	S-21, 5'	128	79
880-21516-48 MS	S-21, 5'	162 S1+	89
880-21516-48 MSD	S-21, 5'	144 S1+	96
880-21516-49	S-22, 0-1'	145 S1+	81
LCS 880-39731/1-A	Lab Control Sample	105	96
LCS 880-39778/1-A	Lab Control Sample	100	103
LCS 880-39847/1-A	Lab Control Sample	88	97
LCS 880-39849/1-A	Lab Control Sample	148 S1+	80
LCS 880-40066/1-A	Lab Control Sample	92	116
LCSD 880-39731/2-A	Lab Control Sample Dup	105	101
LCSD 880-39778/2-A	Lab Control Sample Dup	90	97
LCSD 880-39847/2-A	Lab Control Sample Dup	85	98
LCSD 880-39849/2-A	Lab Control Sample Dup	164 S1+	89
LCSD 880-40066/2-A	Lab Control Sample Dup	101	111
MB 880-39722/5-A	Method Blank	69 S1-	91
MB 880-39731/5-A	Method Blank	77	84
MB 880-39778/5-A	Method Blank	75	106
MB 880-39818/5-A	Method Blank	76	106
MB 880-39847/5-A	Method Blank	75	103
MB 880-39849/5-A	Method Blank	94	77
MB 880-40066/5-A	Method Blank	80	102

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)
880-21516-1	S-1, 1'	94	91
880-21516-1 MS	S-1, 1'	112	88
880-21516-1 MSD	S-1, 1'	103	90
880-21516-2	S-1, 3'	120	112
880-21516-3	S-1, 5'	126	118
880-21516-4	S-2, 1'	98	96
880-21516-5	S-2, 3'	101	95
880-21516-6	S-2, 5'	106	103
880-21516-7	S-5, 1'	103	98
880-21516-8	S-5, 3'	99	94
880-21516-9	S-5, 5'	88	87
880-21516-10	S-6, 1'	92	89
880-21516-11	S-6, 3'	117	112
880-21516-12	S-6, 5'	102	98
880-21516-13	S-7, 1'	102	98

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21516-1
Project/Site: SD P415 SDG: 22-0105-13

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-21516-14	S-7, 3'	100	95								
880-21516-15	S-7, 5'	116	115								
880-21516-16	S-8, 1'	107	105								
880-21516-17	S-8, 3'	123	117								
880-21516-18	S-8, 5'	105	104								
880-21516-19	S-9, 1'	97	93								
880-21516-20	S-9, 3'	96	94								
880-21516-21	S-9, 4.5'	101	110								
880-21516-21 MS	S-9, 4.5'	91	87								
880-21516-21 MSD	S-9, 4.5'	92	87								
880-21516-22	S-10, 1'	84	89								
880-21516-23	S-10, 3'	98	103								
880-21516-24	S-10, 4.5'	93	99								
880-21516-25	S-11, 1'	104	112								
880-21516-26	S-11, 3'	94	100								
880-21516-27	S-11, 4.5'	99	106								
880-21516-28	S-12, 1'	98	104								
880-21516-29	S-12, 3'	93	96								
880-21516-30	S-12, 5'	108	115								
880-21516-31	S-13, 1'	119	127								
880-21516-32	S-13, 3'	91	97								
880-21516-33	S-13, 5'	99	106								
880-21516-34	S-14, 1'	107	112								
880-21516-35	S-14, 3'	111	117								
880-21516-36	S-14, 5'	100	105								
880-21516-37	S-15, 1'	105	110								
880-21516-38	S-15, 3'	103	107								
880-21516-39	S-15, 5'	115	121								
880-21516-40	S-16, 1'	105	111								
880-21516-41	S-16, 3'	95	105								
880-21516-42	S-16, 5'	94	105								
880-21516-43	S-17, 1'	93	103								
880-21516-44	S-17, 3'	95	106								
880-21516-45	S-17, 5'	97	108								
880-21516-46	S-21, 1'	96	105								
880-21516-47	S-21, 3'	90	96								
880-21516-48	S-21, 5'	96	103								
880-21516-49	S-22, 0-1'	86	96								
LCS 880-39675/2-A	Lab Control Sample	95	99								
LCS 880-39676/2-A	Lab Control Sample	104	112								
LCS 880-39724/2-A	Lab Control Sample	84	93								
LCSD 880-39675/3-A	Lab Control Sample Dup	93	98								
LCSD 880-39676/3-A	Lab Control Sample Dup	104	113								
LCSD 880-39724/3-A	Lab Control Sample Dup	83	93								
MB 880-39675/1-A	Method Blank	94	94								
MB 880-39676/1-A	Method Blank	107	118								
MB 880-39724/1-A	Method Blank	100	117								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39722/5-A
Matrix: Solid
Analysis Batch: 39930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39722

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:31	11/19/22 20:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:31	11/19/22 20:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:31	11/19/22 20:05	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/16/22 14:31	11/19/22 20:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:31	11/19/22 20:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/16/22 14:31	11/19/22 20:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*11/16/22 14:31*	*11/19/22 20:05*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/16/22 14:31*	*11/19/22 20:05*	*1*

Lab Sample ID: MB 880-39731/5-A
Matrix: Solid
Analysis Batch: 39930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39731

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/16/22 14:22	11/20/22 09:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 14:22	11/20/22 09:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/16/22 14:22	11/20/22 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*11/16/22 14:22*	*11/20/22 09:29*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*11/16/22 14:22*	*11/20/22 09:29*	*1*

Lab Sample ID: LCS 880-39731/1-A
Matrix: Solid
Analysis Batch: 39930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39731

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07728		mg/Kg		77	70 - 130		
Toluene			0.100	0.07585		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.07080		mg/Kg		71	70 - 130		
m,p-Xylenes			0.200	0.1549		mg/Kg		77	70 - 130		
o-Xylene			0.100	0.07339		mg/Kg		73	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-39731/2-A
Matrix: Solid
Analysis Batch: 39930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39731

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07821		mg/Kg		78	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: LCSD 880-39731/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39930 — **Prep Batch: 39731**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07673		mg/Kg		77	70 - 130	1	35
Ethylbenzene			0.100	0.07186		mg/Kg		72	70 - 130	1	35
m,p-Xylenes			0.200	0.1580		mg/Kg		79	70 - 130	2	35
o-Xylene			0.100	0.07570		mg/Kg		76	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-21516-1 MS — **Client Sample ID: S-1, 1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39930 — **Prep Batch: 39731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1004		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.0996	0.08747		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.07599		mg/Kg		76	70 - 130
m,p-Xylenes	<0.00401	U	0.199	0.1628		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08041		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-21516-1 MSD — **Client Sample ID: S-1, 1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39930 — **Prep Batch: 39731**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09126		mg/Kg		92	70 - 130	10	35
Toluene	<0.00200	U	0.0994	0.08289		mg/Kg		83	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0994	0.07204		mg/Kg		72	70 - 130	5	35
m,p-Xylenes	<0.00401	U	0.199	0.1553		mg/Kg		77	70 - 130	5	35
o-Xylene	<0.00200	U	0.0994	0.07357		mg/Kg		74	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-39778/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39916 — **Prep Batch: 39778**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 02:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 02:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 02:17	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 09:35	11/19/22 02:17	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: MB 880-39778/5-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39778

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 09:35	11/19/22 02:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 09:35	11/19/22 02:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*11/17/22 09:35*	*11/19/22 02:17*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 09:35*	*11/19/22 02:17*	*1*

Lab Sample ID: LCS 880-39778/1-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39778

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08007		mg/Kg		80	70 - 130		
Toluene			0.100	0.1029		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1044		mg/Kg		104	70 - 130		
m,p-Xylenes			0.200	0.1912		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09534		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-39778/2-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08010		mg/Kg		80	70 - 130	0	35
Toluene			0.100	0.09753		mg/Kg		98	70 - 130	5	35
Ethylbenzene			0.100	0.09716		mg/Kg		97	70 - 130	7	35
m,p-Xylenes			0.200	0.1792		mg/Kg		90	70 - 130	6	35
o-Xylene			0.100	0.09015		mg/Kg		90	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-39818/5-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39818

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 13:46	11/18/22 14:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 13:46	11/18/22 14:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 13:46	11/18/22 14:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 13:46	11/18/22 14:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 13:46	11/18/22 14:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 13:46	11/18/22 14:42	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	11/17/22 13:46	11/18/22 14:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/17/22 13:46	11/18/22 14:42	1

Lab Sample ID: MB 880-39847/5-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39847

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 21:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 21:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 21:50	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 15:13	11/19/22 21:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:13	11/19/22 21:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 15:13	11/19/22 21:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	11/17/22 15:13	11/19/22 21:50	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/17/22 15:13	11/19/22 21:50	1

Lab Sample ID: LCS 880-39847/1-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39847

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07828		mg/Kg		78	70 - 130		
Toluene			0.100	0.09698		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09872		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.1796		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08841		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-39847/2-A
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39847

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07321		mg/Kg		73	70 - 130	7	35
Toluene			0.100	0.09197		mg/Kg		92	70 - 130	5	35
Ethylbenzene			0.100	0.09366		mg/Kg		94	70 - 130	5	35
m,p-Xylenes			0.200	0.1699		mg/Kg		85	70 - 130	6	35
o-Xylene			0.100	0.08436		mg/Kg		84	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: 880-21516-28 MS
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: S-12, 1'
Prep Type: Total/NA
Prep Batch: 39847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.07842		mg/Kg		79	70 - 130
Toluene	<0.00201	U	0.0996	0.09046		mg/Kg		91	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.08898		mg/Kg		89	70 - 130
m,p-Xylenes	<0.00402	U	0.199	0.1613		mg/Kg		81	70 - 130
o-Xylene	<0.00201	U	0.0996	0.07906		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-21516-28 MSD
Matrix: Solid
Analysis Batch: 39916

Client Sample ID: S-12, 1'
Prep Type: Total/NA
Prep Batch: 39847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.07386		mg/Kg		74	70 - 130	6	35
Toluene	<0.00201	U	0.0994	0.08599		mg/Kg		87	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0994	0.08543		mg/Kg		86	70 - 130	4	35
m,p-Xylenes	<0.00402	U	0.199	0.1558		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00201	U	0.0994	0.07715		mg/Kg		77	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-39849/5-A
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39849

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 15:36	11/22/22 15:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 15:36	11/22/22 15:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 15:36	11/22/22 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/17/22 15:36*	*11/22/22 15:10*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*11/17/22 15:36*	*11/22/22 15:10*	*1*

Lab Sample ID: LCS 880-39849/1-A
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08837		mg/Kg		88	70 - 130
Toluene	0.100	0.09998		mg/Kg		100	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: LCS 880-39849/1-A
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.09562		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.09927		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-39849/2-A
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1073		mg/Kg		107	70 - 130	19	35
Toluene	0.100	0.1202		mg/Kg		120	70 - 130	18	35
Ethylbenzene	0.100	0.1212		mg/Kg		121	70 - 130	24	35
m,p-Xylenes	0.200	0.2650	*+	mg/Kg		132	70 - 130	23	35
o-Xylene	0.100	0.1252		mg/Kg		125	70 - 130	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-21516-48 MS
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: S-21, 5'
Prep Type: Total/NA
Prep Batch: 39849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1088		mg/Kg		109	70 - 130
Toluene	<0.00200	U	0.0996	0.1189		mg/Kg		119	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.1168		mg/Kg		117	70 - 130
m,p-Xylenes	<0.00399	U *+	0.199	0.2563		mg/Kg		128	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1168		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-21516-48 MSD
Matrix: Solid
Analysis Batch: 40172

Client Sample ID: S-21, 5'
Prep Type: Total/NA
Prep Batch: 39849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09611		mg/Kg		97	70 - 130	12	35
Toluene	<0.00200	U	0.0994	0.1090		mg/Kg		110	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0994	0.09895		mg/Kg		100	70 - 130	17	35
m,p-Xylenes	<0.00399	U *+	0.199	0.2187		mg/Kg		109	70 - 130	16	35
o-Xylene	<0.00200	U	0.0994	0.09877		mg/Kg		99	70 - 130	17	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-40066/5-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40066

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:38	11/21/22 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:38	11/21/22 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	11/21/22 09:38	11/21/22 11:39	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/21/22 09:38	11/21/22 11:39	1

Lab Sample ID: LCS 880-40066/1-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40066

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1030		mg/Kg		103	70 - 130		
Toluene			0.100	0.09620		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09403		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1915		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09388		mg/Kg		94	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-40066/2-A
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40066

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08892		mg/Kg		89	70 - 130	15	35
Toluene			0.100	0.08710		mg/Kg		87	70 - 130	10	35
Ethylbenzene			0.100	0.08563		mg/Kg		86	70 - 130	9	35
m,p-Xylenes			0.200	0.1792		mg/Kg		90	70 - 130	7	35
o-Xylene			0.100	0.09507		mg/Kg		95	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: 880-21516-14 MS
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: S-7, 3'
Prep Type: Total/NA
Prep Batch: 40066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.09550		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.101	0.09213		mg/Kg		91	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.09431		mg/Kg		94	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1941		mg/Kg		96	70 - 130
o-Xylene	<0.00201	U	0.101	0.09715		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-21516-14 MSD
Matrix: Solid
Analysis Batch: 40035

Client Sample ID: S-7, 3'
Prep Type: Total/NA
Prep Batch: 40066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1127		mg/Kg		113	70 - 130	17	35
Toluene	<0.00201	U	0.0996	0.1044		mg/Kg		104	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.0996	0.1073		mg/Kg		108	70 - 130	13	35
m,p-Xylenes	<0.00402	U	0.199	0.2181		mg/Kg		109	70 - 130	12	35
o-Xylene	<0.00201	U	0.0996	0.1085		mg/Kg		109	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

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

Lab Sample ID: MB 880-39675/1-A
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39675

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		11/16/22 09:19	11/17/22 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/16/22 09:19	11/17/22 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/16/22 09:19	11/17/22 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*11/16/22 09:19*	*11/17/22 08:41*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/16/22 09:19*	*11/17/22 08:41*	*1*

Lab Sample ID: LCS 880-39675/2-A
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.8		mg/Kg		84	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: LCS 880-39675/2-A
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39675

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	868.5		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-39675/3-A
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	839.6		mg/Kg		84	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	863.1		mg/Kg		86	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-21516-1 MS
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: S-1, 1'
Prep Type: Total/NA
Prep Batch: 39675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	971.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1032		mg/Kg		104	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-21516-1 MSD
Matrix: Solid
Analysis Batch: 39762

Client Sample ID: S-1, 1'
Prep Type: Total/NA
Prep Batch: 39675

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	<50.0	U	999	932.4		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1068		mg/Kg		107	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*90*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: MB 880-39676/1-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39676

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		11/16/22 09:22	11/17/22 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 09:22	11/17/22 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/16/22 09:22*	*11/17/22 08:41*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*11/16/22 09:22*	*11/17/22 08:41*	*1*

Lab Sample ID: LCS 880-39676/2-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39676

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	998.8		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1005		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-39676/3-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39676

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	936.7		mg/Kg		94	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1012		mg/Kg		101	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-21516-21 MS
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: S-9, 4.5'
Prep Type: Total/NA
Prep Batch: 39676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	967.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	973.0		mg/Kg		98	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: 880-21516-21 MS
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: S-9, 4.5'
Prep Type: Total/NA
Prep Batch: 39676

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: 880-21516-21 MSD
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: S-9, 4.5'
Prep Type: Total/NA
Prep Batch: 39676

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	<50.0	U	999	959.9		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	995.0		mg/Kg		100	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: MB 880-39724/1-A
Matrix: Solid
Analysis Batch: 39981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39724

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		11/16/22 11:27	11/20/22 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/16/22 11:27	11/20/22 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	11/16/22 11:27	11/20/22 08:13	1
o-Terphenyl (Surr)	117		70 - 130	11/16/22 11:27	11/20/22 08:13	1

Lab Sample ID: LCS 880-39724/2-A
Matrix: Solid
Analysis Batch: 39981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	939.9		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.2		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	93		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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

Lab Sample ID: LCSD 880-39724/3-A
Matrix: Solid
Analysis Batch: 39981

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39724

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	907.7		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	962.3		mg/Kg		96	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*83*		*70 - 130*
o-Terphenyl (Surr)	*93*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39697/1-A
Matrix: Solid
Analysis Batch: 39997

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			11/19/22 17:25	1

Lab Sample ID: LCS 880-39697/2-A
Matrix: Solid
Analysis Batch: 39997

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-39697/3-A
Matrix: Solid
Analysis Batch: 39997

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	257.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-21516-4 MS
Matrix: Solid
Analysis Batch: 39997

Client Sample ID: S-2, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2410		1250	3720		mg/Kg		105	90 - 110		

Lab Sample ID: 880-21516-4 MSD
Matrix: Solid
Analysis Batch: 39997

Client Sample ID: S-2, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2410		1250	3687		mg/Kg		102	90 - 110	1	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-39704/1-A
Matrix: Solid
Analysis Batch: 39999

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			11/19/22 17:56	1

Lab Sample ID: LCS 880-39704/2-A
Matrix: Solid
Analysis Batch: 39999

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.7		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-39704/3-A
Matrix: Solid
Analysis Batch: 39999

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	250.2		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-21516-34 MS
Matrix: Solid
Analysis Batch: 39999

Client Sample ID: S-14, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1340	F1	1250	2913	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-21516-34 MSD
Matrix: Solid
Analysis Batch: 39999

Client Sample ID: S-14, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1340	F1	1250	2731	F1	mg/Kg		112	90 - 110	6	20

Lab Sample ID: 880-21516-44 MS
Matrix: Solid
Analysis Batch: 39999

Client Sample ID: S-17, 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	28.0		249	287.2		mg/Kg		104	90 - 110		

Lab Sample ID: 880-21516-44 MSD
Matrix: Solid
Analysis Batch: 39999

Client Sample ID: S-17, 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.0		249	283.6		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-39703/1-A
Matrix: Solid
Analysis Batch: 40001

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			11/19/22 20:34	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-39703/2-A
Matrix: Solid
Analysis Batch: 40001

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-39703/3-A
Matrix: Solid
Analysis Batch: 40001

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	256.3		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-21516-14 MS
Matrix: Solid
Analysis Batch: 40001

Client Sample ID: S-7, 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	33.7		250	297.0		mg/Kg		105	90 - 110		

Lab Sample ID: 880-21516-14 MSD
Matrix: Solid
Analysis Batch: 40001

Client Sample ID: S-7, 3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33.7		250	298.9		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-21516-24 MS
Matrix: Solid
Analysis Batch: 40001

Client Sample ID: S-10, 4.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	42.4	F1	249	318.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-21516-24 MSD
Matrix: Solid
Analysis Batch: 40001

Client Sample ID: S-10, 4.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.4	F1	249	326.4	F1	mg/Kg		114	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC VOA

Prep Batch: 39722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39722/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 39731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	5035	
880-21516-2	S-1, 3'	Total/NA	Solid	5035	
880-21516-3	S-1, 5'	Total/NA	Solid	5035	
880-21516-4	S-2, 1'	Total/NA	Solid	5035	
880-21516-5	S-2, 3'	Total/NA	Solid	5035	
880-21516-6	S-2, 5'	Total/NA	Solid	5035	
880-21516-7	S-5, 1'	Total/NA	Solid	5035	
880-21516-8	S-5, 3'	Total/NA	Solid	5035	
880-21516-9	S-5, 5'	Total/NA	Solid	5035	
880-21516-10	S-6, 1'	Total/NA	Solid	5035	
880-21516-11	S-6, 3'	Total/NA	Solid	5035	
880-21516-12	S-6, 5'	Total/NA	Solid	5035	
880-21516-13	S-7, 1'	Total/NA	Solid	5035	
MB 880-39731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21516-1 MS	S-1, 1'	Total/NA	Solid	5035	
880-21516-1 MSD	S-1, 1'	Total/NA	Solid	5035	

Prep Batch: 39778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-21	S-9, 4.5'	Total/NA	Solid	5035	
880-21516-22	S-10, 1'	Total/NA	Solid	5035	
880-21516-23	S-10, 3'	Total/NA	Solid	5035	
880-21516-24	S-10, 4.5'	Total/NA	Solid	5035	
880-21516-25	S-11, 1'	Total/NA	Solid	5035	
880-21516-26	S-11, 3'	Total/NA	Solid	5035	
880-21516-27	S-11, 4.5'	Total/NA	Solid	5035	
MB 880-39778/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39778/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39778/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 39818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39818/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 39847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-28	S-12, 1'	Total/NA	Solid	5035	
880-21516-29	S-12, 3'	Total/NA	Solid	5035	
880-21516-30	S-12, 5'	Total/NA	Solid	5035	
880-21516-31	S-13, 1'	Total/NA	Solid	5035	
880-21516-32	S-13, 3'	Total/NA	Solid	5035	
880-21516-33	S-13, 5'	Total/NA	Solid	5035	
880-21516-34	S-14, 1'	Total/NA	Solid	5035	
880-21516-35	S-14, 3'	Total/NA	Solid	5035	
880-21516-36	S-14, 5'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC VOA (Continued)

Prep Batch: 39847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-37	S-15, 1'	Total/NA	Solid	5035	
880-21516-38	S-15, 3'	Total/NA	Solid	5035	
880-21516-39	S-15, 5'	Total/NA	Solid	5035	
880-21516-40	S-16, 1'	Total/NA	Solid	5035	
880-21516-41	S-16, 3'	Total/NA	Solid	5035	
880-21516-42	S-16, 5'	Total/NA	Solid	5035	
880-21516-43	S-17, 1'	Total/NA	Solid	5035	
880-21516-44	S-17, 3'	Total/NA	Solid	5035	
880-21516-45	S-17, 5'	Total/NA	Solid	5035	
880-21516-46	S-21, 1'	Total/NA	Solid	5035	
880-21516-47	S-21, 3'	Total/NA	Solid	5035	
MB 880-39847/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39847/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39847/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21516-28 MS	S-12, 1'	Total/NA	Solid	5035	
880-21516-28 MSD	S-12, 1'	Total/NA	Solid	5035	

Prep Batch: 39849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-48	S-21, 5'	Total/NA	Solid	5035	
880-21516-49	S-22, 0-1'	Total/NA	Solid	5035	
MB 880-39849/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39849/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39849/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21516-48 MS	S-21, 5'	Total/NA	Solid	5035	
880-21516-48 MSD	S-21, 5'	Total/NA	Solid	5035	

Analysis Batch: 39916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-21	S-9, 4.5'	Total/NA	Solid	8021B	39778
880-21516-22	S-10, 1'	Total/NA	Solid	8021B	39778
880-21516-23	S-10, 3'	Total/NA	Solid	8021B	39778
880-21516-24	S-10, 4.5'	Total/NA	Solid	8021B	39778
880-21516-25	S-11, 1'	Total/NA	Solid	8021B	39778
880-21516-26	S-11, 3'	Total/NA	Solid	8021B	39778
880-21516-27	S-11, 4.5'	Total/NA	Solid	8021B	39778
880-21516-28	S-12, 1'	Total/NA	Solid	8021B	39847
880-21516-29	S-12, 3'	Total/NA	Solid	8021B	39847
880-21516-30	S-12, 5'	Total/NA	Solid	8021B	39847
880-21516-31	S-13, 1'	Total/NA	Solid	8021B	39847
880-21516-32	S-13, 3'	Total/NA	Solid	8021B	39847
880-21516-33	S-13, 5'	Total/NA	Solid	8021B	39847
880-21516-34	S-14, 1'	Total/NA	Solid	8021B	39847
880-21516-35	S-14, 3'	Total/NA	Solid	8021B	39847
880-21516-36	S-14, 5'	Total/NA	Solid	8021B	39847
880-21516-37	S-15, 1'	Total/NA	Solid	8021B	39847
880-21516-38	S-15, 3'	Total/NA	Solid	8021B	39847
880-21516-39	S-15, 5'	Total/NA	Solid	8021B	39847
880-21516-40	S-16, 1'	Total/NA	Solid	8021B	39847
880-21516-41	S-16, 3'	Total/NA	Solid	8021B	39847
880-21516-42	S-16, 5'	Total/NA	Solid	8021B	39847

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC VOA (Continued)

Analysis Batch: 39916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-43	S-17, 1'	Total/NA	Solid	8021B	39847
880-21516-44	S-17, 3'	Total/NA	Solid	8021B	39847
880-21516-45	S-17, 5'	Total/NA	Solid	8021B	39847
880-21516-46	S-21, 1'	Total/NA	Solid	8021B	39847
880-21516-47	S-21, 3'	Total/NA	Solid	8021B	39847
MB 880-39778/5-A	Method Blank	Total/NA	Solid	8021B	39778
MB 880-39818/5-A	Method Blank	Total/NA	Solid	8021B	39818
MB 880-39847/5-A	Method Blank	Total/NA	Solid	8021B	39847
LCS 880-39778/1-A	Lab Control Sample	Total/NA	Solid	8021B	39778
LCS 880-39847/1-A	Lab Control Sample	Total/NA	Solid	8021B	39847
LCSD 880-39778/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39778
LCSD 880-39847/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39847
880-21516-28 MS	S-12, 1'	Total/NA	Solid	8021B	39847
880-21516-28 MSD	S-12, 1'	Total/NA	Solid	8021B	39847

Analysis Batch: 39930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	8021B	39731
880-21516-2	S-1, 3'	Total/NA	Solid	8021B	39731
880-21516-3	S-1, 5'	Total/NA	Solid	8021B	39731
880-21516-4	S-2, 1'	Total/NA	Solid	8021B	39731
880-21516-5	S-2, 3'	Total/NA	Solid	8021B	39731
880-21516-6	S-2, 5'	Total/NA	Solid	8021B	39731
880-21516-7	S-5, 1'	Total/NA	Solid	8021B	39731
880-21516-8	S-5, 3'	Total/NA	Solid	8021B	39731
880-21516-9	S-5, 5'	Total/NA	Solid	8021B	39731
880-21516-10	S-6, 1'	Total/NA	Solid	8021B	39731
880-21516-11	S-6, 3'	Total/NA	Solid	8021B	39731
880-21516-12	S-6, 5'	Total/NA	Solid	8021B	39731
880-21516-13	S-7, 1'	Total/NA	Solid	8021B	39731
MB 880-39722/5-A	Method Blank	Total/NA	Solid	8021B	39722
MB 880-39731/5-A	Method Blank	Total/NA	Solid	8021B	39731
LCS 880-39731/1-A	Lab Control Sample	Total/NA	Solid	8021B	39731
LCSD 880-39731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39731
880-21516-1 MS	S-1, 1'	Total/NA	Solid	8021B	39731
880-21516-1 MSD	S-1, 1'	Total/NA	Solid	8021B	39731

Analysis Batch: 40035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-14	S-7, 3'	Total/NA	Solid	8021B	40066
880-21516-15	S-7, 5'	Total/NA	Solid	8021B	40066
880-21516-16	S-8, 1'	Total/NA	Solid	8021B	40066
880-21516-17	S-8, 3'	Total/NA	Solid	8021B	40066
880-21516-18	S-8, 5'	Total/NA	Solid	8021B	40066
880-21516-19	S-9, 1'	Total/NA	Solid	8021B	40066
880-21516-20	S-9, 3'	Total/NA	Solid	8021B	40066
MB 880-40066/5-A	Method Blank	Total/NA	Solid	8021B	40066
LCS 880-40066/1-A	Lab Control Sample	Total/NA	Solid	8021B	40066
LCSD 880-40066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40066
880-21516-14 MS	S-7, 3'	Total/NA	Solid	8021B	40066
880-21516-14 MSD	S-7, 3'	Total/NA	Solid	8021B	40066

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC VOA

Prep Batch: 40066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-14	S-7, 3'	Total/NA	Solid	5035	
880-21516-15	S-7, 5'	Total/NA	Solid	5035	
880-21516-16	S-8, 1'	Total/NA	Solid	5035	
880-21516-17	S-8, 3'	Total/NA	Solid	5035	
880-21516-18	S-8, 5'	Total/NA	Solid	5035	
880-21516-19	S-9, 1'	Total/NA	Solid	5035	
880-21516-20	S-9, 3'	Total/NA	Solid	5035	
MB 880-40066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40066/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21516-14 MS	S-7, 3'	Total/NA	Solid	5035	
880-21516-14 MSD	S-7, 3'	Total/NA	Solid	5035	

Analysis Batch: 40124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	Total BTEX	
880-21516-2	S-1, 3'	Total/NA	Solid	Total BTEX	
880-21516-3	S-1, 5'	Total/NA	Solid	Total BTEX	
880-21516-4	S-2, 1'	Total/NA	Solid	Total BTEX	
880-21516-5	S-2, 3'	Total/NA	Solid	Total BTEX	
880-21516-6	S-2, 5'	Total/NA	Solid	Total BTEX	
880-21516-7	S-5, 1'	Total/NA	Solid	Total BTEX	
880-21516-8	S-5, 3'	Total/NA	Solid	Total BTEX	
880-21516-9	S-5, 5'	Total/NA	Solid	Total BTEX	
880-21516-10	S-6, 1'	Total/NA	Solid	Total BTEX	
880-21516-11	S-6, 3'	Total/NA	Solid	Total BTEX	
880-21516-12	S-6, 5'	Total/NA	Solid	Total BTEX	
880-21516-13	S-7, 1'	Total/NA	Solid	Total BTEX	
880-21516-14	S-7, 3'	Total/NA	Solid	Total BTEX	
880-21516-15	S-7, 5'	Total/NA	Solid	Total BTEX	
880-21516-16	S-8, 1'	Total/NA	Solid	Total BTEX	
880-21516-17	S-8, 3'	Total/NA	Solid	Total BTEX	
880-21516-18	S-8, 5'	Total/NA	Solid	Total BTEX	
880-21516-19	S-9, 1'	Total/NA	Solid	Total BTEX	
880-21516-20	S-9, 3'	Total/NA	Solid	Total BTEX	
880-21516-21	S-9, 4.5'	Total/NA	Solid	Total BTEX	
880-21516-22	S-10, 1'	Total/NA	Solid	Total BTEX	
880-21516-23	S-10, 3'	Total/NA	Solid	Total BTEX	
880-21516-24	S-10, 4.5'	Total/NA	Solid	Total BTEX	
880-21516-25	S-11, 1'	Total/NA	Solid	Total BTEX	
880-21516-26	S-11, 3'	Total/NA	Solid	Total BTEX	
880-21516-27	S-11, 4.5'	Total/NA	Solid	Total BTEX	
880-21516-28	S-12, 1'	Total/NA	Solid	Total BTEX	
880-21516-29	S-12, 3'	Total/NA	Solid	Total BTEX	
880-21516-30	S-12, 5'	Total/NA	Solid	Total BTEX	
880-21516-31	S-13, 1'	Total/NA	Solid	Total BTEX	
880-21516-32	S-13, 3'	Total/NA	Solid	Total BTEX	
880-21516-33	S-13, 5'	Total/NA	Solid	Total BTEX	
880-21516-34	S-14, 1'	Total/NA	Solid	Total BTEX	
880-21516-35	S-14, 3'	Total/NA	Solid	Total BTEX	
880-21516-36	S-14, 5'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC VOA (Continued)

Analysis Batch: 40124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-37	S-15, 1'	Total/NA	Solid	Total BTEX	
880-21516-38	S-15, 3'	Total/NA	Solid	Total BTEX	
880-21516-39	S-15, 5'	Total/NA	Solid	Total BTEX	
880-21516-40	S-16, 1'	Total/NA	Solid	Total BTEX	
880-21516-41	S-16, 3'	Total/NA	Solid	Total BTEX	
880-21516-42	S-16, 5'	Total/NA	Solid	Total BTEX	
880-21516-43	S-17, 1'	Total/NA	Solid	Total BTEX	
880-21516-44	S-17, 3'	Total/NA	Solid	Total BTEX	
880-21516-45	S-17, 5'	Total/NA	Solid	Total BTEX	
880-21516-46	S-21, 1'	Total/NA	Solid	Total BTEX	
880-21516-47	S-21, 3'	Total/NA	Solid	Total BTEX	
880-21516-48	S-21, 5'	Total/NA	Solid	Total BTEX	
880-21516-49	S-22, 0-1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 40172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-48	S-21, 5'	Total/NA	Solid	8021B	39849
880-21516-49	S-22, 0-1'	Total/NA	Solid	8021B	39849
MB 880-39849/5-A	Method Blank	Total/NA	Solid	8021B	39849
LCS 880-39849/1-A	Lab Control Sample	Total/NA	Solid	8021B	39849
LCSD 880-39849/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39849
880-21516-48 MS	S-21, 5'	Total/NA	Solid	8021B	39849
880-21516-48 MSD	S-21, 5'	Total/NA	Solid	8021B	39849

GC Semi VOA

Prep Batch: 39675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	8015NM Prep	
880-21516-2	S-1, 3'	Total/NA	Solid	8015NM Prep	
880-21516-3	S-1, 5'	Total/NA	Solid	8015NM Prep	
880-21516-4	S-2, 1'	Total/NA	Solid	8015NM Prep	
880-21516-5	S-2, 3'	Total/NA	Solid	8015NM Prep	
880-21516-6	S-2, 5'	Total/NA	Solid	8015NM Prep	
880-21516-7	S-5, 1'	Total/NA	Solid	8015NM Prep	
880-21516-8	S-5, 3'	Total/NA	Solid	8015NM Prep	
880-21516-9	S-5, 5'	Total/NA	Solid	8015NM Prep	
880-21516-10	S-6, 1'	Total/NA	Solid	8015NM Prep	
880-21516-11	S-6, 3'	Total/NA	Solid	8015NM Prep	
880-21516-12	S-6, 5'	Total/NA	Solid	8015NM Prep	
880-21516-13	S-7, 1'	Total/NA	Solid	8015NM Prep	
880-21516-14	S-7, 3'	Total/NA	Solid	8015NM Prep	
880-21516-15	S-7, 5'	Total/NA	Solid	8015NM Prep	
880-21516-16	S-8, 1'	Total/NA	Solid	8015NM Prep	
880-21516-17	S-8, 3'	Total/NA	Solid	8015NM Prep	
880-21516-18	S-8, 5'	Total/NA	Solid	8015NM Prep	
880-21516-19	S-9, 1'	Total/NA	Solid	8015NM Prep	
880-21516-20	S-9, 3'	Total/NA	Solid	8015NM Prep	
MB 880-39675/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39675/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC Semi VOA (Continued)

Prep Batch: 39675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1 MS	S-1, 1'	Total/NA	Solid	8015NM Prep	
880-21516-1 MSD	S-1, 1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 39676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-21	S-9, 4.5'	Total/NA	Solid	8015NM Prep	
880-21516-22	S-10, 1'	Total/NA	Solid	8015NM Prep	
880-21516-23	S-10, 3'	Total/NA	Solid	8015NM Prep	
880-21516-24	S-10, 4.5'	Total/NA	Solid	8015NM Prep	
880-21516-25	S-11, 1'	Total/NA	Solid	8015NM Prep	
880-21516-26	S-11, 3'	Total/NA	Solid	8015NM Prep	
880-21516-27	S-11, 4.5'	Total/NA	Solid	8015NM Prep	
880-21516-28	S-12, 1'	Total/NA	Solid	8015NM Prep	
880-21516-29	S-12, 3'	Total/NA	Solid	8015NM Prep	
880-21516-30	S-12, 5'	Total/NA	Solid	8015NM Prep	
880-21516-31	S-13, 1'	Total/NA	Solid	8015NM Prep	
880-21516-32	S-13, 3'	Total/NA	Solid	8015NM Prep	
880-21516-33	S-13, 5'	Total/NA	Solid	8015NM Prep	
880-21516-34	S-14, 1'	Total/NA	Solid	8015NM Prep	
880-21516-35	S-14, 3'	Total/NA	Solid	8015NM Prep	
880-21516-36	S-14, 5'	Total/NA	Solid	8015NM Prep	
880-21516-37	S-15, 1'	Total/NA	Solid	8015NM Prep	
880-21516-38	S-15, 3'	Total/NA	Solid	8015NM Prep	
880-21516-39	S-15, 5'	Total/NA	Solid	8015NM Prep	
880-21516-40	S-16, 1'	Total/NA	Solid	8015NM Prep	
MB 880-39676/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39676/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39676/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21516-21 MS	S-9, 4.5'	Total/NA	Solid	8015NM Prep	
880-21516-21 MSD	S-9, 4.5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 39724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-41	S-16, 3'	Total/NA	Solid	8015NM Prep	
880-21516-42	S-16, 5'	Total/NA	Solid	8015NM Prep	
880-21516-43	S-17, 1'	Total/NA	Solid	8015NM Prep	
880-21516-44	S-17, 3'	Total/NA	Solid	8015NM Prep	
880-21516-45	S-17, 5'	Total/NA	Solid	8015NM Prep	
880-21516-46	S-21, 1'	Total/NA	Solid	8015NM Prep	
880-21516-47	S-21, 3'	Total/NA	Solid	8015NM Prep	
880-21516-48	S-21, 5'	Total/NA	Solid	8015NM Prep	
880-21516-49	S-22, 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-39724/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39724/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39724/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	8015B NM	39675
880-21516-2	S-1, 3'	Total/NA	Solid	8015B NM	39675
880-21516-3	S-1, 5'	Total/NA	Solid	8015B NM	39675

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC Semi VOA (Continued)

Analysis Batch: 39762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-4	S-2, 1'	Total/NA	Solid	8015B NM	39675
880-21516-5	S-2, 3'	Total/NA	Solid	8015B NM	39675
880-21516-6	S-2, 5'	Total/NA	Solid	8015B NM	39675
880-21516-7	S-5, 1'	Total/NA	Solid	8015B NM	39675
880-21516-8	S-5, 3'	Total/NA	Solid	8015B NM	39675
880-21516-9	S-5, 5'	Total/NA	Solid	8015B NM	39675
880-21516-10	S-6, 1'	Total/NA	Solid	8015B NM	39675
880-21516-11	S-6, 3'	Total/NA	Solid	8015B NM	39675
880-21516-12	S-6, 5'	Total/NA	Solid	8015B NM	39675
880-21516-13	S-7, 1'	Total/NA	Solid	8015B NM	39675
880-21516-14	S-7, 3'	Total/NA	Solid	8015B NM	39675
880-21516-15	S-7, 5'	Total/NA	Solid	8015B NM	39675
880-21516-16	S-8, 1'	Total/NA	Solid	8015B NM	39675
880-21516-17	S-8, 3'	Total/NA	Solid	8015B NM	39675
880-21516-18	S-8, 5'	Total/NA	Solid	8015B NM	39675
880-21516-19	S-9, 1'	Total/NA	Solid	8015B NM	39675
880-21516-20	S-9, 3'	Total/NA	Solid	8015B NM	39675
MB 880-39675/1-A	Method Blank	Total/NA	Solid	8015B NM	39675
LCS 880-39675/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39675
LCSD 880-39675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39675
880-21516-1 MS	S-1, 1'	Total/NA	Solid	8015B NM	39675
880-21516-1 MSD	S-1, 1'	Total/NA	Solid	8015B NM	39675

Analysis Batch: 39764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-21	S-9, 4.5'	Total/NA	Solid	8015B NM	39676
880-21516-22	S-10, 1'	Total/NA	Solid	8015B NM	39676
880-21516-23	S-10, 3'	Total/NA	Solid	8015B NM	39676
880-21516-24	S-10, 4.5'	Total/NA	Solid	8015B NM	39676
880-21516-25	S-11, 1'	Total/NA	Solid	8015B NM	39676
880-21516-26	S-11, 3'	Total/NA	Solid	8015B NM	39676
880-21516-27	S-11, 4.5'	Total/NA	Solid	8015B NM	39676
880-21516-28	S-12, 1'	Total/NA	Solid	8015B NM	39676
880-21516-29	S-12, 3'	Total/NA	Solid	8015B NM	39676
880-21516-30	S-12, 5'	Total/NA	Solid	8015B NM	39676
880-21516-31	S-13, 1'	Total/NA	Solid	8015B NM	39676
880-21516-32	S-13, 3'	Total/NA	Solid	8015B NM	39676
880-21516-33	S-13, 5'	Total/NA	Solid	8015B NM	39676
880-21516-34	S-14, 1'	Total/NA	Solid	8015B NM	39676
880-21516-35	S-14, 3'	Total/NA	Solid	8015B NM	39676
880-21516-36	S-14, 5'	Total/NA	Solid	8015B NM	39676
880-21516-37	S-15, 1'	Total/NA	Solid	8015B NM	39676
880-21516-38	S-15, 3'	Total/NA	Solid	8015B NM	39676
880-21516-39	S-15, 5'	Total/NA	Solid	8015B NM	39676
880-21516-40	S-16, 1'	Total/NA	Solid	8015B NM	39676
MB 880-39676/1-A	Method Blank	Total/NA	Solid	8015B NM	39676
LCS 880-39676/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39676
LCSD 880-39676/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39676
880-21516-21 MS	S-9, 4.5'	Total/NA	Solid	8015B NM	39676
880-21516-21 MSD	S-9, 4.5'	Total/NA	Solid	8015B NM	39676

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC Semi VOA

Analysis Batch: 39904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Total/NA	Solid	8015 NM	
880-21516-2	S-1, 3'	Total/NA	Solid	8015 NM	
880-21516-3	S-1, 5'	Total/NA	Solid	8015 NM	
880-21516-4	S-2, 1'	Total/NA	Solid	8015 NM	
880-21516-5	S-2, 3'	Total/NA	Solid	8015 NM	
880-21516-6	S-2, 5'	Total/NA	Solid	8015 NM	
880-21516-7	S-5, 1'	Total/NA	Solid	8015 NM	
880-21516-8	S-5, 3'	Total/NA	Solid	8015 NM	
880-21516-9	S-5, 5'	Total/NA	Solid	8015 NM	
880-21516-10	S-6, 1'	Total/NA	Solid	8015 NM	
880-21516-11	S-6, 3'	Total/NA	Solid	8015 NM	
880-21516-12	S-6, 5'	Total/NA	Solid	8015 NM	
880-21516-13	S-7, 1'	Total/NA	Solid	8015 NM	
880-21516-14	S-7, 3'	Total/NA	Solid	8015 NM	
880-21516-15	S-7, 5'	Total/NA	Solid	8015 NM	
880-21516-16	S-8, 1'	Total/NA	Solid	8015 NM	
880-21516-17	S-8, 3'	Total/NA	Solid	8015 NM	
880-21516-18	S-8, 5'	Total/NA	Solid	8015 NM	
880-21516-19	S-9, 1'	Total/NA	Solid	8015 NM	
880-21516-20	S-9, 3'	Total/NA	Solid	8015 NM	
880-21516-21	S-9, 4.5'	Total/NA	Solid	8015 NM	
880-21516-22	S-10, 1'	Total/NA	Solid	8015 NM	
880-21516-23	S-10, 3'	Total/NA	Solid	8015 NM	
880-21516-24	S-10, 4.5'	Total/NA	Solid	8015 NM	
880-21516-25	S-11, 1'	Total/NA	Solid	8015 NM	
880-21516-26	S-11, 3'	Total/NA	Solid	8015 NM	
880-21516-27	S-11, 4.5'	Total/NA	Solid	8015 NM	
880-21516-28	S-12, 1'	Total/NA	Solid	8015 NM	
880-21516-29	S-12, 3'	Total/NA	Solid	8015 NM	
880-21516-30	S-12, 5'	Total/NA	Solid	8015 NM	
880-21516-31	S-13, 1'	Total/NA	Solid	8015 NM	
880-21516-32	S-13, 3'	Total/NA	Solid	8015 NM	
880-21516-33	S-13, 5'	Total/NA	Solid	8015 NM	
880-21516-34	S-14, 1'	Total/NA	Solid	8015 NM	
880-21516-35	S-14, 3'	Total/NA	Solid	8015 NM	
880-21516-36	S-14, 5'	Total/NA	Solid	8015 NM	
880-21516-37	S-15, 1'	Total/NA	Solid	8015 NM	
880-21516-38	S-15, 3'	Total/NA	Solid	8015 NM	
880-21516-39	S-15, 5'	Total/NA	Solid	8015 NM	
880-21516-40	S-16, 1'	Total/NA	Solid	8015 NM	
880-21516-41	S-16, 3'	Total/NA	Solid	8015 NM	
880-21516-42	S-16, 5'	Total/NA	Solid	8015 NM	
880-21516-43	S-17, 1'	Total/NA	Solid	8015 NM	
880-21516-44	S-17, 3'	Total/NA	Solid	8015 NM	
880-21516-45	S-17, 5'	Total/NA	Solid	8015 NM	
880-21516-46	S-21, 1'	Total/NA	Solid	8015 NM	
880-21516-47	S-21, 3'	Total/NA	Solid	8015 NM	
880-21516-48	S-21, 5'	Total/NA	Solid	8015 NM	
880-21516-49	S-22, 0-1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

GC Semi VOA

Analysis Batch: 39981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-41	S-16, 3'	Total/NA	Solid	8015B NM	39724
880-21516-42	S-16, 5'	Total/NA	Solid	8015B NM	39724
880-21516-43	S-17, 1'	Total/NA	Solid	8015B NM	39724
880-21516-44	S-17, 3'	Total/NA	Solid	8015B NM	39724
880-21516-45	S-17, 5'	Total/NA	Solid	8015B NM	39724
880-21516-46	S-21, 1'	Total/NA	Solid	8015B NM	39724
880-21516-47	S-21, 3'	Total/NA	Solid	8015B NM	39724
880-21516-48	S-21, 5'	Total/NA	Solid	8015B NM	39724
880-21516-49	S-22, 0-1'	Total/NA	Solid	8015B NM	39724
MB 880-39724/1-A	Method Blank	Total/NA	Solid	8015B NM	39724
LCS 880-39724/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39724
LCSD 880-39724/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39724

HPLC/IC

Leach Batch: 39697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Soluble	Solid	DI Leach	
880-21516-2	S-1, 3'	Soluble	Solid	DI Leach	
880-21516-3	S-1, 5'	Soluble	Solid	DI Leach	
880-21516-4	S-2, 1'	Soluble	Solid	DI Leach	
880-21516-5	S-2, 3'	Soluble	Solid	DI Leach	
880-21516-6	S-2, 5'	Soluble	Solid	DI Leach	
880-21516-7	S-5, 1'	Soluble	Solid	DI Leach	
880-21516-8	S-5, 3'	Soluble	Solid	DI Leach	
880-21516-9	S-5, 5'	Soluble	Solid	DI Leach	
880-21516-10	S-6, 1'	Soluble	Solid	DI Leach	
880-21516-11	S-6, 3'	Soluble	Solid	DI Leach	
880-21516-12	S-6, 5'	Soluble	Solid	DI Leach	
880-21516-13	S-7, 1'	Soluble	Solid	DI Leach	
MB 880-39697/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39697/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39697/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21516-4 MS	S-2, 1'	Soluble	Solid	DI Leach	
880-21516-4 MSD	S-2, 1'	Soluble	Solid	DI Leach	

Leach Batch: 39703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-14	S-7, 3'	Soluble	Solid	DI Leach	
880-21516-15	S-7, 5'	Soluble	Solid	DI Leach	
880-21516-16	S-8, 1'	Soluble	Solid	DI Leach	
880-21516-17	S-8, 3'	Soluble	Solid	DI Leach	
880-21516-18	S-8, 5'	Soluble	Solid	DI Leach	
880-21516-19	S-9, 1'	Soluble	Solid	DI Leach	
880-21516-20	S-9, 3'	Soluble	Solid	DI Leach	
880-21516-21	S-9, 4.5'	Soluble	Solid	DI Leach	
880-21516-22	S-10, 1'	Soluble	Solid	DI Leach	
880-21516-23	S-10, 3'	Soluble	Solid	DI Leach	
880-21516-24	S-10, 4.5'	Soluble	Solid	DI Leach	
880-21516-25	S-11, 1'	Soluble	Solid	DI Leach	
880-21516-26	S-11, 3'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

HPLC/IC (Continued)

Leach Batch: 39703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-27	S-11, 4.5'	Soluble	Solid	DI Leach	
880-21516-28	S-12, 1'	Soluble	Solid	DI Leach	
880-21516-29	S-12, 3'	Soluble	Solid	DI Leach	
880-21516-30	S-12, 5'	Soluble	Solid	DI Leach	
880-21516-31	S-13, 1'	Soluble	Solid	DI Leach	
880-21516-32	S-13, 3'	Soluble	Solid	DI Leach	
880-21516-33	S-13, 5'	Soluble	Solid	DI Leach	
MB 880-39703/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39703/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39703/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21516-14 MS	S-7, 3'	Soluble	Solid	DI Leach	
880-21516-14 MSD	S-7, 3'	Soluble	Solid	DI Leach	
880-21516-24 MS	S-10, 4.5'	Soluble	Solid	DI Leach	
880-21516-24 MSD	S-10, 4.5'	Soluble	Solid	DI Leach	

Leach Batch: 39704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-34	S-14, 1'	Soluble	Solid	DI Leach	
880-21516-35	S-14, 3'	Soluble	Solid	DI Leach	
880-21516-36	S-14, 5'	Soluble	Solid	DI Leach	
880-21516-37	S-15, 1'	Soluble	Solid	DI Leach	
880-21516-38	S-15, 3'	Soluble	Solid	DI Leach	
880-21516-39	S-15, 5'	Soluble	Solid	DI Leach	
880-21516-40	S-16, 1'	Soluble	Solid	DI Leach	
880-21516-41	S-16, 3'	Soluble	Solid	DI Leach	
880-21516-42	S-16, 5'	Soluble	Solid	DI Leach	
880-21516-43	S-17, 1'	Soluble	Solid	DI Leach	
880-21516-44	S-17, 3'	Soluble	Solid	DI Leach	
880-21516-45	S-17, 5'	Soluble	Solid	DI Leach	
880-21516-46	S-21, 1'	Soluble	Solid	DI Leach	
880-21516-47	S-21, 3'	Soluble	Solid	DI Leach	
880-21516-48	S-21, 5'	Soluble	Solid	DI Leach	
880-21516-49	S-22, 0-1'	Soluble	Solid	DI Leach	
MB 880-39704/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39704/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39704/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21516-34 MS	S-14, 1'	Soluble	Solid	DI Leach	
880-21516-34 MSD	S-14, 1'	Soluble	Solid	DI Leach	
880-21516-44 MS	S-17, 3'	Soluble	Solid	DI Leach	
880-21516-44 MSD	S-17, 3'	Soluble	Solid	DI Leach	

Analysis Batch: 39997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-1	S-1, 1'	Soluble	Solid	300.0	39697
880-21516-2	S-1, 3'	Soluble	Solid	300.0	39697
880-21516-3	S-1, 5'	Soluble	Solid	300.0	39697
880-21516-4	S-2, 1'	Soluble	Solid	300.0	39697
880-21516-5	S-2, 3'	Soluble	Solid	300.0	39697
880-21516-6	S-2, 5'	Soluble	Solid	300.0	39697
880-21516-7	S-5, 1'	Soluble	Solid	300.0	39697
880-21516-8	S-5, 3'	Soluble	Solid	300.0	39697

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

HPLC/IC (Continued)

Analysis Batch: 39997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-9	S-5, 5'	Soluble	Solid	300.0	39697
880-21516-10	S-6, 1'	Soluble	Solid	300.0	39697
880-21516-11	S-6, 3'	Soluble	Solid	300.0	39697
880-21516-12	S-6, 5'	Soluble	Solid	300.0	39697
880-21516-13	S-7, 1'	Soluble	Solid	300.0	39697
MB 880-39697/1-A	Method Blank	Soluble	Solid	300.0	39697
LCS 880-39697/2-A	Lab Control Sample	Soluble	Solid	300.0	39697
LCSD 880-39697/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39697
880-21516-4 MS	S-2, 1'	Soluble	Solid	300.0	39697
880-21516-4 MSD	S-2, 1'	Soluble	Solid	300.0	39697

Analysis Batch: 39999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-34	S-14, 1'	Soluble	Solid	300.0	39704
880-21516-35	S-14, 3'	Soluble	Solid	300.0	39704
880-21516-36	S-14, 5'	Soluble	Solid	300.0	39704
880-21516-37	S-15, 1'	Soluble	Solid	300.0	39704
880-21516-38	S-15, 3'	Soluble	Solid	300.0	39704
880-21516-39	S-15, 5'	Soluble	Solid	300.0	39704
880-21516-40	S-16, 1'	Soluble	Solid	300.0	39704
880-21516-41	S-16, 3'	Soluble	Solid	300.0	39704
880-21516-42	S-16, 5'	Soluble	Solid	300.0	39704
880-21516-43	S-17, 1'	Soluble	Solid	300.0	39704
880-21516-44	S-17, 3'	Soluble	Solid	300.0	39704
880-21516-45	S-17, 5'	Soluble	Solid	300.0	39704
880-21516-46	S-21, 1'	Soluble	Solid	300.0	39704
880-21516-47	S-21, 3'	Soluble	Solid	300.0	39704
880-21516-48	S-21, 5'	Soluble	Solid	300.0	39704
880-21516-49	S-22, 0-1'	Soluble	Solid	300.0	39704
MB 880-39704/1-A	Method Blank	Soluble	Solid	300.0	39704
LCS 880-39704/2-A	Lab Control Sample	Soluble	Solid	300.0	39704
LCSD 880-39704/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39704
880-21516-34 MS	S-14, 1'	Soluble	Solid	300.0	39704
880-21516-34 MSD	S-14, 1'	Soluble	Solid	300.0	39704
880-21516-44 MS	S-17, 3'	Soluble	Solid	300.0	39704
880-21516-44 MSD	S-17, 3'	Soluble	Solid	300.0	39704

Analysis Batch: 40001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-14	S-7, 3'	Soluble	Solid	300.0	39703
880-21516-15	S-7, 5'	Soluble	Solid	300.0	39703
880-21516-16	S-8, 1'	Soluble	Solid	300.0	39703
880-21516-17	S-8, 3'	Soluble	Solid	300.0	39703
880-21516-18	S-8, 5'	Soluble	Solid	300.0	39703
880-21516-19	S-9, 1'	Soluble	Solid	300.0	39703
880-21516-20	S-9, 3'	Soluble	Solid	300.0	39703
880-21516-21	S-9, 4.5'	Soluble	Solid	300.0	39703
880-21516-22	S-10, 1'	Soluble	Solid	300.0	39703
880-21516-23	S-10, 3'	Soluble	Solid	300.0	39703
880-21516-24	S-10, 4.5'	Soluble	Solid	300.0	39703
880-21516-25	S-11, 1'	Soluble	Solid	300.0	39703

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

HPLC/IC (Continued)

Analysis Batch: 40001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21516-26	S-11, 3'	Soluble	Solid	300.0	39703
880-21516-27	S-11, 4.5'	Soluble	Solid	300.0	39703
880-21516-28	S-12, 1'	Soluble	Solid	300.0	39703
880-21516-29	S-12, 3'	Soluble	Solid	300.0	39703
880-21516-30	S-12, 5'	Soluble	Solid	300.0	39703
880-21516-31	S-13, 1'	Soluble	Solid	300.0	39703
880-21516-32	S-13, 3'	Soluble	Solid	300.0	39703
880-21516-33	S-13, 5'	Soluble	Solid	300.0	39703
MB 880-39703/1-A	Method Blank	Soluble	Solid	300.0	39703
LCS 880-39703/2-A	Lab Control Sample	Soluble	Solid	300.0	39703
LCSD 880-39703/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39703
880-21516-14 MS	S-7, 3'	Soluble	Solid	300.0	39703
880-21516-14 MSD	S-7, 3'	Soluble	Solid	300.0	39703
880-21516-24 MS	S-10, 4.5'	Soluble	Solid	300.0	39703
880-21516-24 MSD	S-10, 4.5'	Soluble	Solid	300.0	39703

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-1, 1'
Date Collected: 11/10/22 10:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-1
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			4.99 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 09:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 11:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39697	11/16/22 10:35	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 18:44	SMC	EET MID

Client Sample ID: S-1, 3'
Date Collected: 11/10/22 10:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-2
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	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 10:22	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 12:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39697	11/16/22 10:35	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 18:50	SMC	EET MID

Client Sample ID: S-1, 5'
Date Collected: 11/10/22 10:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-3
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	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 10:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 12:38	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39697	11/16/22 10:35	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 18:56	SMC	EET MID

Client Sample ID: S-2, 1'
Date Collected: 11/10/22 10:45
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-4
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			5.01 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 11:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-2, 1'
Date Collected: 11/10/22 10:45
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-4
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			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 13:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		5			39997	11/19/22 19:01	SMC	EET MID

Client Sample ID: S-2, 3'
Date Collected: 11/10/22 10:50
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-5
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			5.02 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 11:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 13:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 19:18	SMC	EET MID

Client Sample ID: S-2, 5'
Date Collected: 11/10/22 10:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-6
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			5.03 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 12:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 13:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 19:24	SMC	EET MID

Client Sample ID: S-5, 1'
Date Collected: 11/10/22 11:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-7
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			4.97 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 12:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 14:05	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-5, 1'
Date Collected: 11/10/22 11:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-7
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			4.98 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		5			39997	11/19/22 19:41	SMC	EET MID

Client Sample ID: S-5, 3'
Date Collected: 11/10/22 11:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-8
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			5.02 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 12:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 14:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 19:46	SMC	EET MID

Client Sample ID: S-5, 5'
Date Collected: 11/10/22 11:10
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-9
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			5.03 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 13:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 14:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/20/22 13:36	SMC	EET MID

Client Sample ID: S-6, 1'
Date Collected: 11/10/22 11:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-10
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			5.01 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 13:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 15:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		5			39997	11/19/22 19:53	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-6, 3'
Date Collected: 11/10/22 11:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-11
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			5.03 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 15:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/19/22 19:59	SMC	EET MID

Client Sample ID: S-6, 5'
Date Collected: 11/10/22 11:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-12
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			5.01 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 16:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 16:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		1			39997	11/20/22 09:40	SMC	EET MID

Client Sample ID: S-7, 1'
Date Collected: 11/10/22 11:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-13
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			5.02 g	5 mL	39731	11/16/22 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39930	11/20/22 16:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 18:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 16:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39697	11/16/22 10:36	KS	EET MID
Soluble	Analysis	300.0		5			39997	11/19/22 20:06	SMC	EET MID

Client Sample ID: S-7, 3'
Date Collected: 11/10/22 11:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-14
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			4.98 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 12:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-7, 3'
Date Collected: 11/10/22 11:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-14
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			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 17:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/19/22 20:51	SMC	EET MID

Client Sample ID: S-7, 5'
Date Collected: 11/10/22 11:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-15
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			4.95 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 12:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 09:57	SMC	EET MID

Client Sample ID: S-8, 1'
Date Collected: 11/10/22 11:45
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-16
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			4.97 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 12:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 18:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		10			40001	11/20/22 10:03	SMC	EET MID

Client Sample ID: S-8, 3'
Date Collected: 11/10/22 11:50
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-17
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			5.03 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 13:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 18:23	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-8, 3'
Date Collected: 11/10/22 11:50
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-17
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			499 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 10:09	SMC	EET MID

Client Sample ID: S-8, 5'
Date Collected: 11/10/22 11:55
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-18
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			5.05 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 13:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 18:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 10:14	SMC	EET MID

Client Sample ID: S-9, 1'
Date Collected: 11/10/22 12:00
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-19
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			5.00 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 13:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		5			40001	11/20/22 10:31	SMC	EET MID

Client Sample ID: S-9, 3'
Date Collected: 11/10/22 12:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-20
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			4.95 g	5 mL	40066	11/21/22 09:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40035	11/21/22 14:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/22/22 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39675	11/16/22 09:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39762	11/17/22 19:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		5			40001	11/20/22 13:53	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-9, 4.5'
Date Collected: 11/10/22 12:10
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-21
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 11:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		10			40001	11/20/22 10:43	SMC	EET MID

Client Sample ID: S-10, 1'
Date Collected: 11/10/22 12:15
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-22
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 08:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 12:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		5			40001	11/20/22 10:48	SMC	EET MID

Client Sample ID: S-10, 3'
Date Collected: 11/10/22 12:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-23
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 08:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 12:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 10:54	SMC	EET MID

Client Sample ID: S-10, 4.5'
Date Collected: 11/10/22 12:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-24
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 08:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-10, 4.5'
Date Collected: 11/10/22 12:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-24
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			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 13:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:00	SMC	EET MID

Client Sample ID: S-11, 1'
Date Collected: 11/10/22 12:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-25
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 09:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 13:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		5			40001	11/20/22 11:17	SMC	EET MID

Client Sample ID: S-11, 3'
Date Collected: 11/10/22 12:35
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-26
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 09:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:22	SMC	EET MID

Client Sample ID: S-11, 4.5'
Date Collected: 11/10/22 12:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-27
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	39778	11/17/22 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 09:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 14:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-11, 4.5'
Date Collected: 11/10/22 12:40
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-27
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	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:39	SMC	EET MID

Client Sample ID: S-12, 1'
Date Collected: 11/11/22 09:56
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-28
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 22:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 14:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:45	SMC	EET MID

Client Sample ID: S-12, 3'
Date Collected: 11/11/22 09:57
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-29
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 14:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:51	SMC	EET MID

Client Sample ID: S-12, 5'
Date Collected: 11/11/22 09:58
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-30
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 22:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 15:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 11:56	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-13, 1'
Date Collected: 11/11/22 10:05
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-31
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		5			40001	11/20/22 12:02	SMC	EET MID

Client Sample ID: S-13, 3'
Date Collected: 11/11/22 10:06
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-32
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			5.04 g	5 mL	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/19/22 23:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 16:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 12:08	SMC	EET MID

Client Sample ID: S-13, 5'
Date Collected: 11/11/22 10:07
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-33
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 00:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 16:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39703	11/16/22 10:38	KS	EET MID
Soluble	Analysis	300.0		1			40001	11/20/22 12:13	SMC	EET MID

Client Sample ID: S-14, 1'
Date Collected: 11/11/22 10:11
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-34
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-14, 1'
Date Collected: 11/11/22 10:11
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-34
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			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 17:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		5			39999	11/19/22 18:17	CH	EET MID

Client Sample ID: S-14, 3'
Date Collected: 11/11/22 10:12
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-35
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 00:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 18:39	CH	EET MID

Client Sample ID: S-14, 5'
Date Collected: 11/11/22 10:13
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-36
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 18:01	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 18:46	CH	EET MID

Client Sample ID: S-15, 1'
Date Collected: 11/11/22 10:18
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-37
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 01:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 18:23	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-15, 1'
Date Collected: 11/11/22 10:18
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-37
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			499 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		5			39999	11/19/22 18:53	CH	EET MID

Client Sample ID: S-15, 3'
Date Collected: 11/11/22 10:19
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-38
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 18:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:00	CH	EET MID

Client Sample ID: S-15, 5'
Date Collected: 11/11/22 10:20
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-39
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:21	CH	EET MID

Client Sample ID: S-16, 1'
Date Collected: 11/11/22 10:24
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-40
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39676	11/16/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 19:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		5			39999	11/19/22 19:29	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-16, 3'
Date Collected: 11/11/22 10:25
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-41
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 14:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:36	CH	EET MID

Client Sample ID: S-16, 5'
Date Collected: 11/11/22 10:26
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-42
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:43	CH	EET MID

Client Sample ID: S-17, 1'
Date Collected: 11/11/22 10:30
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-43
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:50	CH	EET MID

Client Sample ID: S-17, 3'
Date Collected: 11/11/22 10:31
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-44
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-17, 3'
Date Collected: 11/11/22 10:31
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-44
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			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 15:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 19:57	CH	EET MID

Client Sample ID: S-17, 5'
Date Collected: 11/11/22 10:32
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-45
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 16:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 20:19	CH	EET MID

Client Sample ID: S-21, 1'
Date Collected: 11/11/22 10:36
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-46
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 16:21	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 20:26	CH	EET MID

Client Sample ID: S-21, 3'
Date Collected: 11/11/22 10:37
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-47
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	39847	11/17/22 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39916	11/20/22 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/21/22 15:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 16:42	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Client Sample ID: S-21, 3'
Date Collected: 11/11/22 10:37
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-47
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	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 20:47	CH	EET MID

Client Sample ID: S-21, 5'
Date Collected: 11/11/22 10:38
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-48
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	39849	11/17/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40172	11/22/22 15:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/23/22 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 17:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 20:54	CH	EET MID

Client Sample ID: S-22, 0-1'
Date Collected: 11/11/22 10:43
Date Received: 11/14/22 11:01

Lab Sample ID: 880-21516-49
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	39849	11/17/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40172	11/22/22 16:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40124	11/23/22 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			39904	11/21/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39724	11/16/22 11:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39981	11/20/22 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39704	11/16/22 10:40	KS	EET MID
Soluble	Analysis	300.0		1			39999	11/19/22 21:01	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: 880-21516-1
Project/Site: SD P415 SDG: 22-0105-13

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	T104704400-22-24	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: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: SD P415

Job ID: 880-21516-1
SDG: 22-0105-13

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21516-1	S-1, 1'	Solid	11/10/22 10:30	11/14/22 11:01
880-21516-2	S-1, 3'	Solid	11/10/22 10:35	11/14/22 11:01
880-21516-3	S-1, 5'	Solid	11/10/22 10:40	11/14/22 11:01
880-21516-4	S-2, 1'	Solid	11/10/22 10:45	11/14/22 11:01
880-21516-5	S-2, 3'	Solid	11/10/22 10:50	11/14/22 11:01
880-21516-6	S-2, 5'	Solid	11/10/22 10:55	11/14/22 11:01
880-21516-7	S-5, 1'	Solid	11/10/22 11:00	11/14/22 11:01
880-21516-8	S-5, 3'	Solid	11/10/22 11:05	11/14/22 11:01
880-21516-9	S-5, 5'	Solid	11/10/22 11:10	11/14/22 11:01
880-21516-10	S-6, 1'	Solid	11/10/22 11:15	11/14/22 11:01
880-21516-11	S-6, 3'	Solid	11/10/22 11:20	11/14/22 11:01
880-21516-12	S-6, 5'	Solid	11/10/22 11:25	11/14/22 11:01
880-21516-13	S-7, 1'	Solid	11/10/22 11:30	11/14/22 11:01
880-21516-14	S-7, 3'	Solid	11/10/22 11:35	11/14/22 11:01
880-21516-15	S-7, 5'	Solid	11/10/22 11:40	11/14/22 11:01
880-21516-16	S-8, 1'	Solid	11/10/22 11:45	11/14/22 11:01
880-21516-17	S-8, 3'	Solid	11/10/22 11:50	11/14/22 11:01
880-21516-18	S-8, 5'	Solid	11/10/22 11:55	11/14/22 11:01
880-21516-19	S-9, 1'	Solid	11/10/22 12:00	11/14/22 11:01
880-21516-20	S-9, 3'	Solid	11/10/22 12:05	11/14/22 11:01
880-21516-21	S-9, 4.5'	Solid	11/10/22 12:10	11/14/22 11:01
880-21516-22	S-10, 1'	Solid	11/10/22 12:15	11/14/22 11:01
880-21516-23	S-10, 3'	Solid	11/10/22 12:20	11/14/22 11:01
880-21516-24	S-10, 4.5'	Solid	11/10/22 12:25	11/14/22 11:01
880-21516-25	S-11, 1'	Solid	11/10/22 12:30	11/14/22 11:01
880-21516-26	S-11, 3'	Solid	11/10/22 12:35	11/14/22 11:01
880-21516-27	S-11, 4.5'	Solid	11/10/22 12:40	11/14/22 11:01
880-21516-28	S-12, 1'	Solid	11/11/22 09:56	11/14/22 11:01
880-21516-29	S-12, 3'	Solid	11/11/22 09:57	11/14/22 11:01
880-21516-30	S-12, 5'	Solid	11/11/22 09:58	11/14/22 11:01
880-21516-31	S-13, 1'	Solid	11/11/22 10:05	11/14/22 11:01
880-21516-32	S-13, 3'	Solid	11/11/22 10:06	11/14/22 11:01
880-21516-33	S-13, 5'	Solid	11/11/22 10:07	11/14/22 11:01
880-21516-34	S-14, 1'	Solid	11/11/22 10:11	11/14/22 11:01
880-21516-35	S-14, 3'	Solid	11/11/22 10:12	11/14/22 11:01
880-21516-36	S-14, 5'	Solid	11/11/22 10:13	11/14/22 11:01
880-21516-37	S-15, 1'	Solid	11/11/22 10:18	11/14/22 11:01
880-21516-38	S-15, 3'	Solid	11/11/22 10:19	11/14/22 11:01
880-21516-39	S-15, 5'	Solid	11/11/22 10:20	11/14/22 11:01
880-21516-40	S-16, 1'	Solid	11/11/22 10:24	11/14/22 11:01
880-21516-41	S-16, 3'	Solid	11/11/22 10:25	11/14/22 11:01
880-21516-42	S-16, 5'	Solid	11/11/22 10:26	11/14/22 11:01
880-21516-43	S-17, 1'	Solid	11/11/22 10:30	11/14/22 11:01
880-21516-44	S-17, 3'	Solid	11/11/22 10:31	11/14/22 11:01
880-21516-45	S-17, 5'	Solid	11/11/22 10:32	11/14/22 11:01
880-21516-46	S-21, 1'	Solid	11/11/22 10:36	11/14/22 11:01
880-21516-47	S-21, 3'	Solid	11/11/22 10:37	11/14/22 11:01
880-21516-48	S-21, 5'	Solid	11/11/22 10:38	11/14/22 11:01
880-21516-49	S-22, 0-1'	Solid	11/11/22 10:43	11/14/22 11:01

21516 No. 2851

CHAIN-OF-CUSTODY

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

DATE 11/14/2022 PAGE 1 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD P415

LAI PROJECT # 22-0105-13 COLLECTOR RN + JH

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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
S-1, 1'		11/10/22	1030	S	1				X		X		X	X	X													X		202
S-1, 3'			1035																											
S-1, 5'			1040																											
S-2, 1'			1045																											
S-2, 3'			1050																											
S-2, 5'			1055																											
S-5, 1'			1100																											
S-5, 3'			1105																											
S-5, 5'			1110																											
S-6, 1'			1115																											
S-6, 3'			1120																											
S-6, 5'			1125																											
S-7, 1'			1130																											
S-7, 3'			1135																											
S-7, 5'			1140																											
TOTAL																														

880-21516 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 11/14/22 1101	RECEIVED BY (Signature)
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 0.8/0.5 THERM# IR2-30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

21516

No. 2852

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/14/2022 PAGE 2 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD P415

LAI PROJECT # 22-0105-13 COLLECTOR RM + JH

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State
MST/NM

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

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-8, 1'		11/10/22	1145	S	1				X		X		X	X	X												X		
S-8, 3'			1150																										
S-8, 5'			1155																										
S-9, 1'			1200																										
S-9 3'			1205																										
S-9' 4.5'			1210																										
S-10, 1'			1215																										
S-10 3'			1220																										
S-10' 4.5'			1225																										
S-11, 1'			1230																										
S-11, 3'			1235																										
S-11' 4.5'			1240																										
S-12 1'		11/11/22	0956																										
S-12' 3'			0957																										
S-12' 5'			0958																										
TOTAL																													

RELINQUISHED BY (Signature) DATE/TIME 11/14/22 1101 RECEIVED BY (Signature)

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 _____ THERM# _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

21516 No. 2853

CHAIN-OF-CUSTODY

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

DATE 11/14/2022 PAGE 3 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD P415

LAI PROJECT # 22-0105-13 COLLECTOR RN & JH

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

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 ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒	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 ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-13, 1'		11/11/22	1005	S	1				X		X			X	X	X												X		
S-13, 3'			1006																											
S-13, 5'			1007																											
S-14, 1'			1011																											
S-14, 3'			1012																											
S-14, 5'			1013																											
S-15, 1'			1018																											
S-15, 3'			1019																											
S-15, 5'			1020																											
S-16, 1'			1024																											
S-16, 3'			1025																											
S-16, 5'			1026																											
S-17, 1'			1030																											
S-17, 3'			1031																											
S-17, 5'			1032																											
TOTAL																														

RELINQUISHED BY (Signature) DATE/TIME 11/14/22 1101 RECEIVED BY (Signature)

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 _____ THERM# _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

21516 No. 2854

CHAIN-OF-CUSTODY

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

DATE 11/14/2022 PAGE 4 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME. SD P415

LAI PROJECT # 22-0105-13 COLLECTOR RN + OH

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	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-21, 1'		11/11/22	1036	S	1				X		X		X	X	X													X	
S-21, 3'		"	1037	"	"				"		"		"	"	"													"	
S-21, 5'		"	1038	"	"				"		"		"	"	"													"	
S-22, 0-1'		"	1042	"	"				"		"		"	"	"													"	

Loc: 880
21516

TOTAL

RELINQUISHED BY (Signature) DATE/TIME 11/14/22 1101 RECEIVED BY (Signature)

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 _____ THERM# _____
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21516-1
SDG Number: 22-0105-13

Login Number: 21516
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.	True	
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 Midland

Job Notes

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

Generated
11/23/2022 3:27:59 PM

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

Appendix E

Photographic Documentation

Tracking Number: nAPP2225428183
Delineation Report and Remediation Plan
Chevron USA, Inc., Salado Draw Pad 415
Produced Water Release
January 11, 2023

View of location sign

Impacted area viewing southwest, September 7, 2022

Impacted area viewing southeast, September 7, 2022

Impacted area viewing south/southeast, September 7, 2022

Impacted area viewing north, September 7, 2022

Impacted area viewing north, September 7, 2022

Tracking Number: nAPP2225428183
Delineation Report and Remediation Plan
Chevron USA, Inc., Salado Draw Pad 415
Produced Water Release
January 11, 2023

Impacted area viewing north/northwest, September 7, 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 176298

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 176298
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please ensure sidewall samples are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater.	2/2/2023