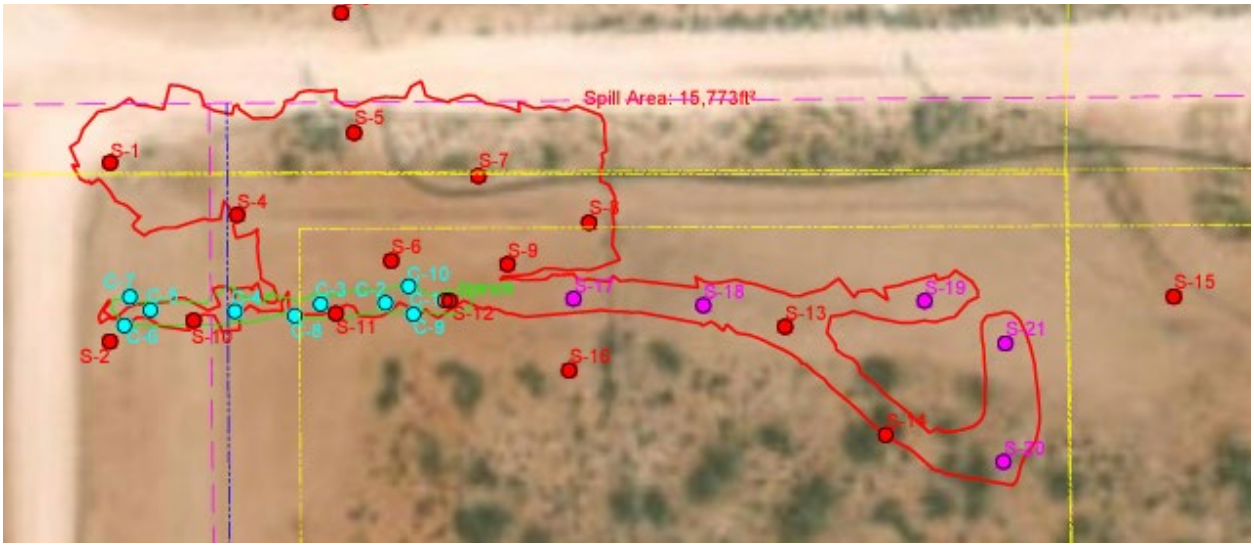
15,773 sqft=0.36 acres * 325,851 ac/ft * 3 ft deep * 0.1 inch/inch available water capacity=13,890 gal /42 BBL = **837**



Plant-available water holding capacities of various textured soil.

Soil Texture	Plant-Available Water Holding Capacity (inches of water per foot of soil)
Very coarse sands	0.4 - 0.75
Coarse sands, fine sands, loamy sands	0.75 - 1.25
Sandy loams, fine sandy loams	1.25 - 1.75
Very fine sandy loams, loams, silt loams	1.50 - 2.30
Clay loams, silty clay loams, sandy clay loams	1.75 - 2.50
Sandy clays, silty clays, clays	1.60 - 2.50

[2]*Adapted from:* Schwankl, L.J. and T. Prichard. 2009. University of California Drought Management Web Site. http://UCManageDrought.ucdavis.edu. Viewed Aug. 13, 2009.

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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

Signature: HButler Date: 11/21/23

email: hbutler@selectwater.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2225935775
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Facility ID	
Application ID	

Remediation Plan

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

- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ 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: Halie Butler Title: Sr. Corporate Compliance and Enviromental Manager

Signature: HButler Date: 11/21/23

email: hbutler@selectwater.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nAPP2225935775
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Application ID	

Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

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

Signature: HButler Date: 11/21/23

email: hbutler@selectwater.com Telephone: 281-467-3153

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Incident ID: nAPP2225935775
REMEDIATION AND CLOSURE REPORT
Salado Draw Pad 415
Produced Water Release
Lea County, New Mexico

Latitude: 32.02233
Longitude: -103.62972

LAI Project No. 22-0104-07

November 20, 2023

Prepared for:
Select Water Solutions, LLC
P.O. Box 1715
Gainesville, TX 76242

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

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

Daniel St. Germain
Daniel St. Germain
Staff Geologist

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Figure 3 Aerial Map with Proposed Excavation Areas and Delineation Sample Locations
Figure 4 Aerial Map with Excavation Areas and Confirmation Sample Locations

Appendices

Appendix A Initial C-141
Appendix B Karst Potential Map
Appendix C NMOCD Communications
Appendix D Laboratory Reports
Appendix E Photographic Documentation

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this remediation and closure report on behalf of Select Water Solutions, LLC. (Select) 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 32.02233 and West -103.62972. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on September 2, 2022, and was the result of a manifold operator closing an inlet valve, allowing pressure to build above the maximum threshold of the lay flat line, causing the line to fail and release about 847 barrels (bbls) of produced water along the lease road and into an adjoining pasture. Select reported that about 125 bbls were recovered. The initial C-141 was received by the NMOCD on September 16, 2023, and assigned to incident number nAPP2225935775. Appendix A presents the initial C-141 and spill calculation. Appendix A presents the initial C-141.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,136 feet above mean sea level (MSL).
- The surface topography gradually decreases to the southwest.
- There are no surface water features within 0.5 miles of the Site.
- Karst data provided by the USGS describes the Site as “medium risk” potential.
- The soils are designated as Pyote soils and Maljamar fine sands, where the Pyote setting consists of 0 to 30 inches of find sand underlain by 30 to 60 inches of fine sandy loam; and the Maljamar setting consists of 0 to 24 inches of fine sand, underlain by 24 to 50 inches of sandy clay loam, and 50-60 inches of cemented material (caliche).
- Surface geology is described as Holocene to middle Pleistocene eolian and piedmont deposits consisting of alternating layers of eolian and piedmont-slope deposits.
- Groundwater is greater than 100 feet below ground surface (bgs), based on a dry groundwater bore (SB-01), located 0.39 miles northwest of the Site, and gauged for depth to groundwater 72 hours after completion.

Figure 2 presents an aerial map with the site location and groundwater borehole location. Appendix B presents the karst potential map.

1.3 Remediation Levels

The following remediation standards are based on closure criteria for groundwater greater than 100 feet bgs and 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

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

2.0 DELINEATION

The release was fully delineated between September 20, 2023, and March 16, 2023, and documented in a report titled "*Delineation Report and Remediation Plan, Salado Draw Pad 415, Lea County, New Mexico, April 19, 2023".* The report recommended the following remedial actions:

- Excavate soil from an area measuring about 2,044 square feet encompassing S-1 to a depth of one (1) foot bgs.
- Excavate soil from an area measuring about 3,317 square feet encompassing S-4 and S-5 and S-6 to a depth of three (3) feet bgs.
- Excavate soil from an area measuring about 4,296 square feet encompassing S-6 and S-7 to a depth of one (1) feet bgs.
- Excavate soil from an area measuring about 1,110 square feet encompassing S-8 to a depth of three (3) feet bgs.
- Excavate soil from an area measuring about 1,746 square feet encompassing S-10 to a depth of one (1) feet bgs.
- Excavate soil from an area measuring about 442 square feet encompassing S-11 to a depth of 4.1 feet bgs.
- Excavate soil from an area measuring about 200 square feet encompassing C-3 to a depth of five (5) feet bgs.
- Collect five-point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with topsoil and caliche assuming achievement of NMOCD closure criteria.
- Prepare report with photographs for submittal to NMOCD District I.

NMOCD conditionally approved the remediation plan on July 5, 2023, stating that, *"Remediation Plan approved with the following conditions:*

1. *No remedial activity is required for the following areas: from S-1 area - approximately 2,044 square feet (ft.2), from S-6 area - approximately 1,422 ft.2, from C-1, C-9, C-10 area - approximately 500 ft.2, from S-2, S-10, C-4, C-5, C-6, C-7 - approximately 1,746 ft.2.*
2. *Excavation from S-7 area - approximately 2,366 ft.2, required to reach, at a minimum, 1 foot below ground surface (bgs).*
3. *Excavation from S-4 and S-5 area - approximately 3,317 ft.2, S-8 area - approximately 1,110 ft.2, and S-11 and C-3 area - approximately 442 ft.2, required to reach, at a minimum, 3.5 ft. bgs.*
4. *Collect confirmation samples per five-point composite every 200 ft.2 from excavation base and sidewalls.*
5. *Sample laboratory analysis for chloride only,*
6. *Remediation Due date updated to October 3, 2023, to submit final closure report with photos of excavated areas prior to backfill, and*
7. *Backfill excavation as stated in report".*

Figure 3 presents an aerial map with delineation soil sample locations and proposed excavation areas. Appendix C presents NMCOD communications.

3.0 REMEDIATION

Between August 20, 2023, and October 5, 2023, SDR Enterprises, LLC (SDR) and Warrior Technologies, LLC (Warrior) excavated about 939 cubic yards of impacted soil from the release area using mechanical and hydro excavation methods. Mechanically excavated soil was temporally stored on plastic liners near the excavation and hydro excavated material was stored in vacuum boxes. Impacted material was disposed of at the R360 Antelope Draw Disposal Facility in Lea County, New Mexico, or the Milestone disposal facility in Orla, Texas.

On September 20, 2022, during the initial site assessment of the release, LAI personnel collected ten (10) confirmation soil samples (C-1 through C-10) from an open gas line trench. The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco (Xenco) in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28), and oil range organics (>C28-C35) by EPA SW-846 Method 8015M, and chloride by EPA Method 300. Xenco reported that benzene, BTEX, and TPH were below NMOCD closure criteria (19.15.29 NMAC Table 1) in all samples. Chloride was reported above the NMOCD closure criteria in C-3 (37,400 mg/Kg). The remaining confirmation samples areas were excluded from further remediation per NMOCD remediation plan approval conditions.

On August 31, 2023, LAI personnel collected 32 initial (C-11 through C-42) composite confirmation samples from the bottom and the sidewalls of the excavation. The samples were analyzed by Xenco for chloride by EPA Method 300 and reported chloride above NMOCD closure criteria in seven (7) samples, including C-36 (972 mg/Kg), C-37 (975 mg/Kg), C-38 (835 mg/Kg), C-39 (814 mg/Kg) C-40 (853 mg/Kg), C-41 (805 mg/Kg), and C-42 (633 mg/Kg).

On September 9, 2023, LAI personnel collected four (4) composite soil samples, including three (3) initial samples (C-43 through C-45) and one (1) sample from a sample area (C-3) where additional soil excavation was performed due to chloride previously being repeated above closure criteria. Xenco analyzed the samples and reported chloride below NMOCD closure criteria in all samples.

On October 3 and 5, 2023, LAI Collected six (6) composite samples (C-36 through C-42) from areas where additional soil excavation was performed due to chloride previously being reported above NMOCD closure criteria. Xenco analyzed the samples for chloride and reported that C-39 (1,480 mg/Kg) was above NMOCD closure criteria.

Laboratory analysis demonstrates that chloride is below the NMOCD closure standards in Table 1 of 19.15.29 NMAC for all confirmation samples, apart from sample C-39, where a deferral is requested. Figure 4 presents excavation area and confirmation sample location map. Table 2 presents the confirmation sample analytical summary. Appendix D presents the laboratory reports.

4.0 RECLAMATION

On November 1, 2023, LAI personnel collected three (3) composite samples (BF-1 through BF-3) of backfill material from the Battle Axe Headquarters borrow pit located in Lea County, New Mexico. Xenco analyzed the samples for BTEX, TPH and chloride and reported concentrations below the analytical method reporting limit and NMOCD requirements outlined in 19.25.29.13D(1). Table 2 presents the backfill analytical data summary. Appendix D presents the laboratory reports.

During the week of November 6, 2023, SDR backfilled the excavation with material collected from the borrow pit. Additional topsoil was used to recontour offsite areas to resemble previous surface conditions. SDR seeded the pasture area with BLM Mix #3. Backfill notification was provided to the NMOCD on October 18, 2023. Appendix C presents NMOCD communications. Appendix E presents photographic documentation.

5.0 DEFFERRAL REQUEST

Select requests a deferral for the area near sample location C-39, due to its proximity to a high traffic lease road.

Tables

Table 1
Soil Sample Analytical Data Summary
Select Energy - Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0-0.5	09/20/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**4,980**
	0.5-1	09/20/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**5,750**
	0-1	03/15/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	56.1
	3	03/15/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	239
	5	03/15/2023	In-Situ	<0.00114	< 0.00227	<28.4	<28.4	<28.4	<28.4	4,770
S-2	0-0.5	09/20/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	44.4
	0.5-1	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	7.94
S-3	0-0.5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	13.6
	0.5-1	09/20/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	13.9
S-4	0-0.5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**7,640**
	0.5-1	09/20/2022	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**4,550**
	0-1	03/15/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**4,230**
	3	03/15/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	**3,560**
	5	03/15/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	469
S-5	0-0.5	09/20/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**5,070**
	0.5-1	09/20/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**3,000**
	0-1	03/13/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	300
	3.00	03/13/2023	In-Situ	<0.00198	<0.00398	<50.0	<50.0	<50.0	<50.0	**968**
	5.00	03/13/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	507

Table 1
Soil Sample Analytical Data Summary
Select Energy - Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-6	0-0.5	09/20/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,400**
	0.5-1	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**832**
	0-1	03/13/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	507
	3	03/13/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	162
	5	03/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	15.6
S-7	0-0.5	09/20/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	**9,210**
	0.5-1	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	570
S-8	0-0.5	09/20/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**4,390**
	0.5-1	09/20/2022	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**4,600**
	0-1	03/13/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**803**
	3	03/13/2023	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,010**
	5	03/13/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	2,430
S-9	0-0.5	09/20/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	365
	0.5-1	09/20/2022	In-Situ	<0.00101	<0.00202	<25.3	<23.5	<23.5	<23.5	198
S-10	0-0.5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**4,370**
	0.5-1	09/20/2022	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**5,530**
	0-1	03/16/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	3.20
	3	03/16/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	7.03
	5	03/16/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	838

Table 1
Soil Sample Analytical Data Summary
Select Energy - Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-11	0-1	03/16/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	81.1
	3	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<25.8	<25.8	<25.8	161
	4.1-4.5	09/20/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	2,510
	4.5-5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	2,670
S-12	0-1	03/16/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	77.0
	3	03/16/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	430
	4.1-4.5	09/20/2022	In-Situ	<0.00108	0.00544	<26.9	<26.9	<26.9	<26.9	14,200
	4.5-5	09/20/2022	In-Situ	<0.00104	0.00533	<26.0	<26.0	<26.0	<26.0	4,410
S-13	0-1	03/14/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	16.0
	3	03/14/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	11.4
	4.1-4.5	09/20/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	3,130
	4.5-5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	2,650
S-14	0-1	03/13/2023	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	51.2
	3	03/13/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	42.7
	4.1-4.5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	2,650
	4.5-5	09/20/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	1,940
S-15	0-0.5	09/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	3.21
	0.5-1	09/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	4.78

Table 1
Soil Sample Analytical Data Summary
Select Energy - Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-16	0-0.5	09/20/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	4.08
	0.5-1	09/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	5.89
S-17	0-1	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	8.23
	3	03/16/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	467
	5	03/16/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	2,000
S-18	0-1	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	13.6
	3	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	13.3
	5	03/16/2023	In-Situ	<0.00104	<0.00208	<26	<26	<26	<26	497
S-19	0-1	03/14/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	9.10
	3	03/14/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	8.10
	5	03/14/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	85.5
S-20	0-1	03/14/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	5.56
	3	03/14/2023	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	15.2
	5	03/14/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	16.5
S-21	0-1	03/16/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	5.86
	3	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	30.4
	5	03/16/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	32.3

Table 1
Soil Sample Analytical Data Summary
Select Energy - Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**

Notes:

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

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

<: parameter concentration below analytical method reporting limit

Depth in feet below ground surface (bgs)

Bold and Highlighted exceeds NMOCD remediation limits

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Water, Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***2,500***	***20,000***
C-1	Bottom	4.1	9/20/2022	In-Situ	<0.00109	**0.00982**	<27.2	<27.2	<27.2	<27.2	17,800
C-2	Bottom	4.1	9/20/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	5,110
C-3	Bottom	4.1	9/20/2022	Excavated	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**37,400**
		5	9/15/2023	In-Situ	--	--	--	--	--	--	99.9
C-4	Bottom	4.1	9/20/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**9,320**
C-5	Bottom	4.1	9/20/2022	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	**16,400**
C-6	Sidewall	0-4.1	9/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	**2,950**
C-7	Sidewall	0-4.1	9/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	**6,370**
C-8	Sidewall	0-4.1	9/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	313
C-9	Sidewall	0-4.1	9/20/2022	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	**1,240**
C-10	Sidewall	0-4.1	9/20/2022	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	**1,800**
C-11	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	1,040
C-12	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	2,600
C-13	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	3,330
C-14	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	3,560
C-15	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	4,770
C-16	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	3,080
C-17	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	206
C-18	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	5,480
C-19	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	356
C-20	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	1,670
C-21	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	1,090
C-22	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	2,370
C-23	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	2,290
C-24	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	3,360
C-25	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	77.6
C-26	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	36.7
C-27	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	48.2

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Water, Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***2,500***	***20,000***
C-28	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	32.1
C-29	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	53.4
C-30	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	104
C-31	Bottom	1	8/31/2023	In-Situ	--	--	--	--	--	--	52.7
C-32	Sidewall	0-1	8/31/2023	In-Situ	--	--	--	--	--	--	39.0
C-33	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	2,590
C-34	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	2,390
C-35	Bottom	4.1	8/31/2023	In-Situ	--	--	--	--	--	--	90.7
C-36	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**972**
			10/5/2023	In-Situ	--	--	--	--	--	--	200
C-37	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**975**
			10/5/2023	In-Situ	--	--	--	--	--	--	186
C-38	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**835**
			10/5/2023	In-Situ	--	--	--	--	--	--	157
C-39	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**814**
			10/3/2023	In-Situ	--	--	--	--	--	--	**1,480**
C-40	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**853**
			10/5/2023	In-Situ	--	--	--	--	--	--	234
C-41	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**805**
			10/3/2023	In-Situ	--	--	--	--	--	--	441
C-42	Sidewall	0-4.1	8/31/2023	Excavated	--	--	--	--	--	--	**633**
			10/5/2023	In-Situ	--	--	--	--	--	--	266
C-43	Bottom	5	9/15/2023	In-Situ	--	--	--	--	--	--	88.3
C-44	Bottom	5	9/15/2023	In-Situ	--	--	--	--	--	--	24.5
C-45	Sidewall	0-5	9/15/2023	In-Situ	--	--	--	--	--	--	60.0

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Water, Salado Draw Pad 415
Lea County, New Mexico
32°01'20.42"N, 103°37'47.01"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***2,500***	***20,000***
Backfill Samples											
BF-1	--	--	11/1/2023	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<4.97
BF-2	--	--	11/1/2023	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<5.00
BF-3	--	--	11/1/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<4.98

Notes:

Analysis performed by Permian Basin Enviromental Lab (PBEL) or Eurofins-Xenco (Xenco) by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

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

<: parameter concentration below analytical method reporting limit

Depth reported in feet below ground surface (bgs)

Bold and highlighted indicates parameter concentration above NMOCD closure criteria

Bold and Highlighted indicates areas where remdiation is not required per NMOCD

Bold and Highlighted indicates confirmation sample areas where a deferral is being requested

Figures

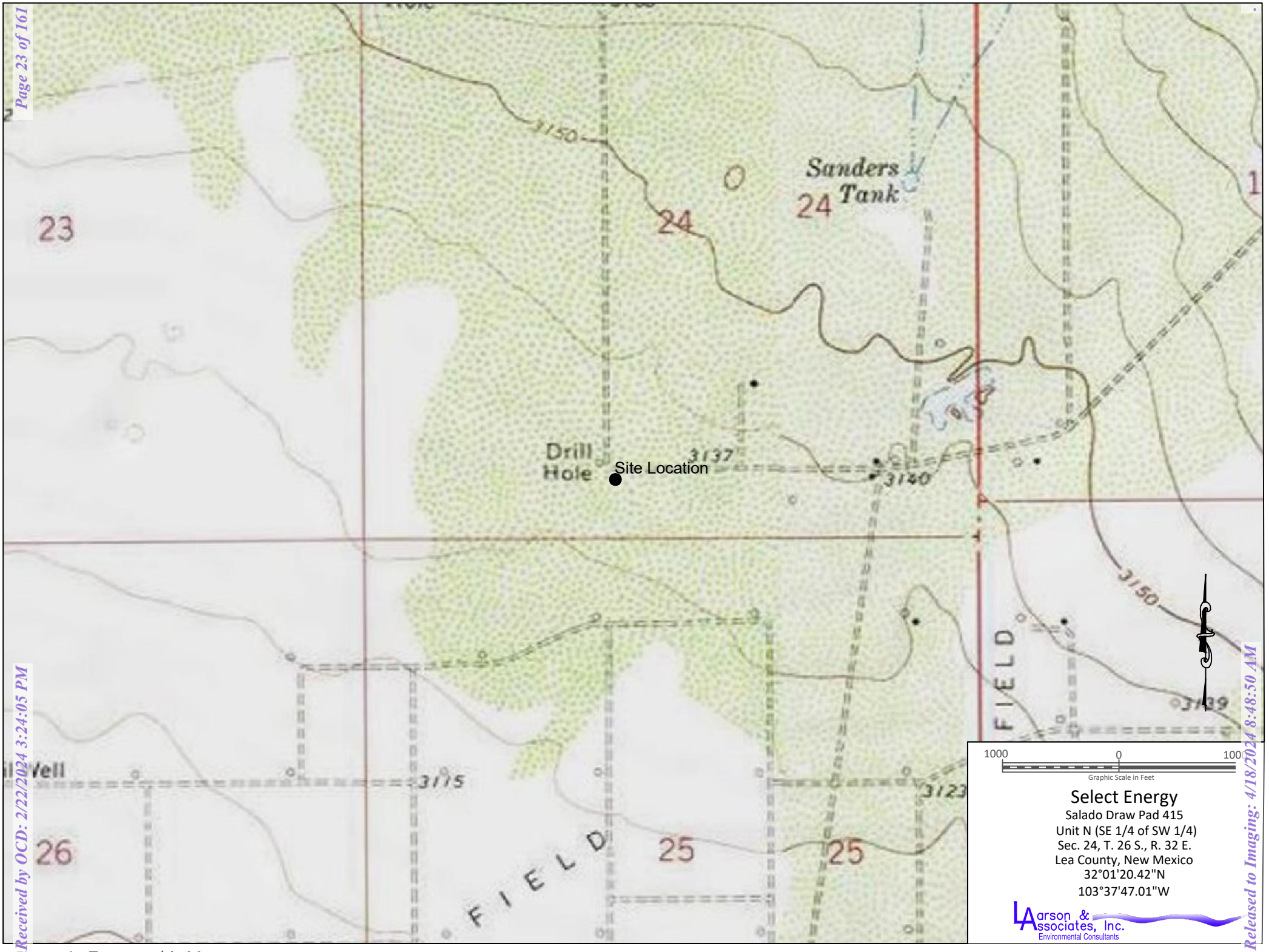

Figure 1 - Topographic Map

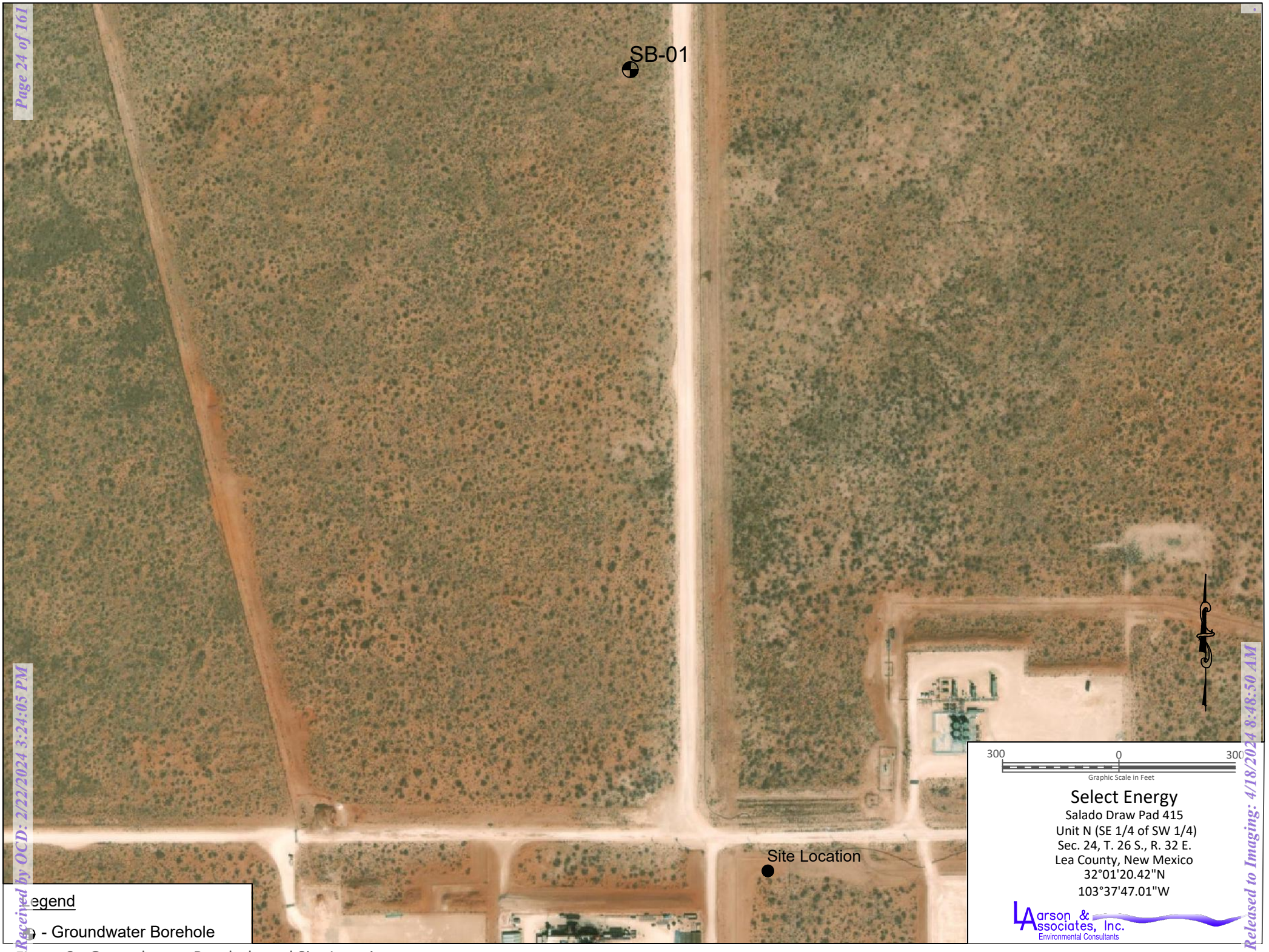

Figure 2 - Groundwater Borehole and Site Locations

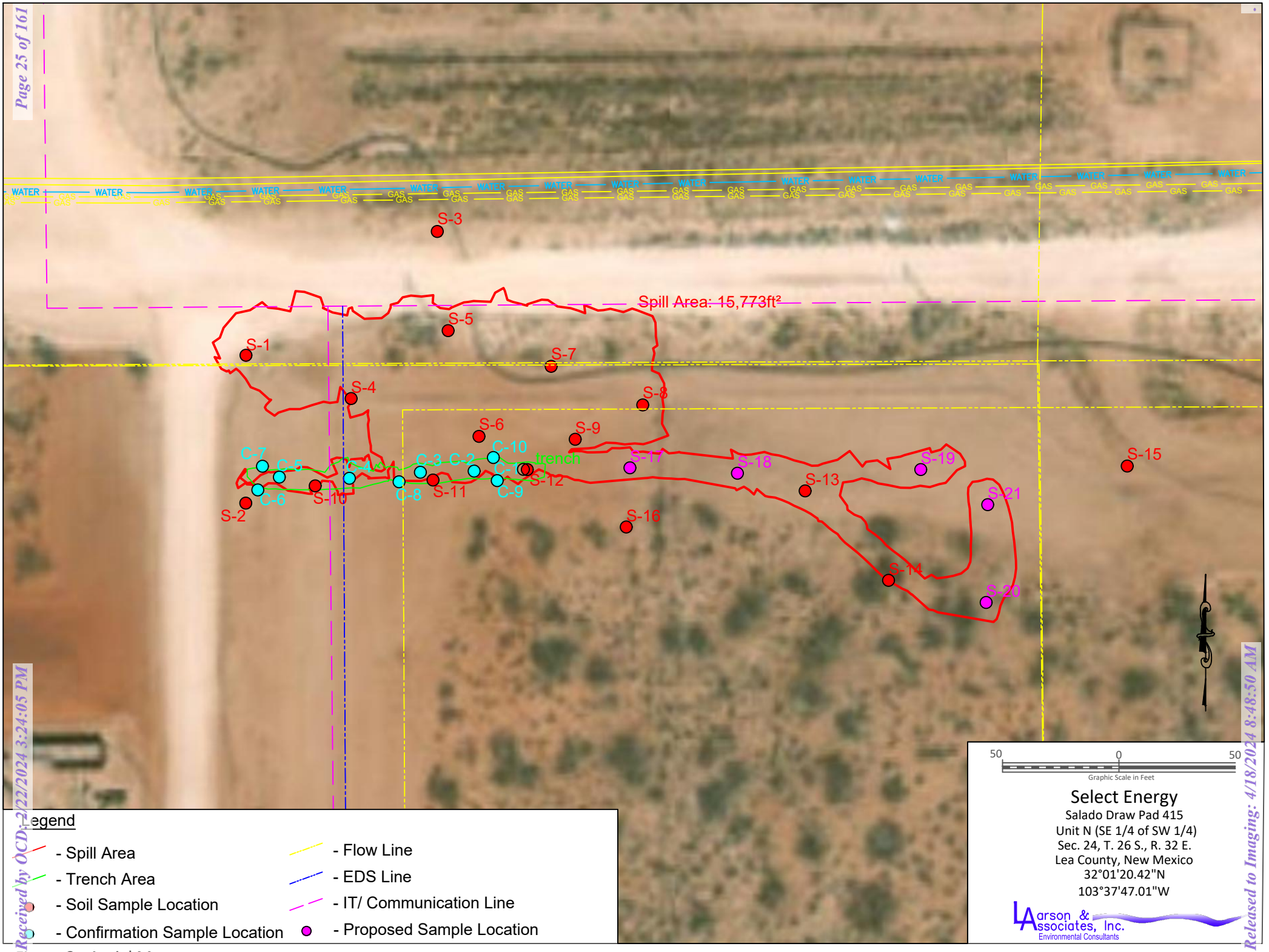

Figure 3 - Aerial Map

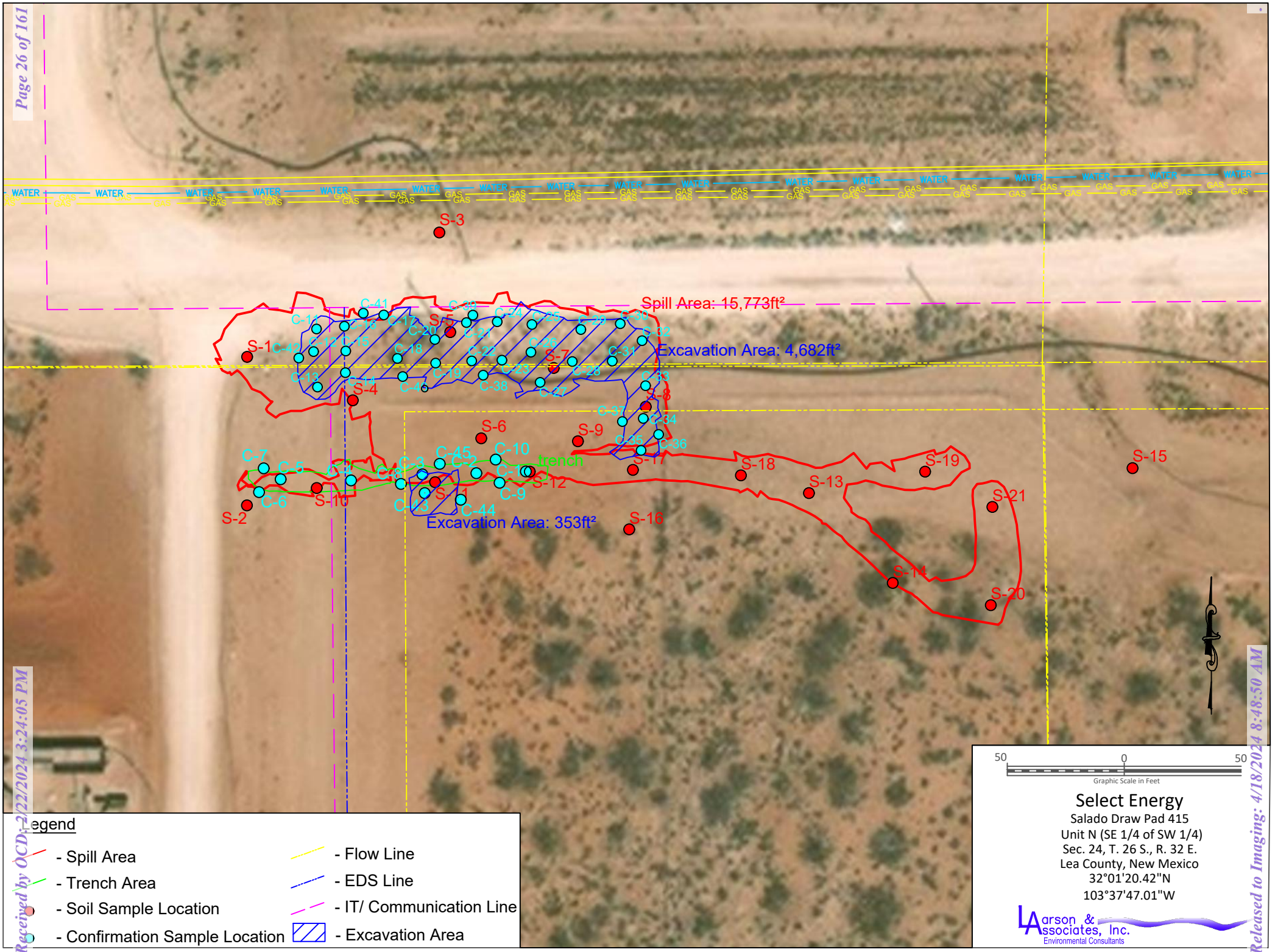

Figure 4 - Aerial Map Showing Excavation Area and Confirmation Samples

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	NAPP2225935775
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.02228 Longitude -103.63008
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw Pad 415	Site Type: Oil
Date Release Discovered: 9-2-2022	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): 847	Volume Recovered (bbls): 125
	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: Manifold operator on pad closed the inlet valve, causing pressure to build past burst point of layflat. Inline pump upstream did shut down correctly at 90 psi, but higher pressure was seen downstream at burst location.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2225935775
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? Release greater than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Select Energy Services assumed responsibility of the release on 9-13-22 and Halie Bulter emailed Mike Bratcher on 9-13-2022.	

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: Halie Butler Title: Sr. Corp ENV Manager

Signature: HButler Date: 9/16/22

email: hbutler@selectenergyservices.com Telephone: 281-467-3153

OCD Only

Received by: Jocelyn Harimon Date: 09/16/2022

Area	Shape	Length in feet	Width in feet	Diameter (for circular)	Standing Depth in inches	Depth in Soil in inches	Standing Volume	In Soil Volume	Total Volume
1	Rectangle	100.00	11.00		6.000	2.000	97.96	4.90	102.86
2	Rectangle	785.00	10.00		0.250	0.250	29.13	4.37	33.50
3	Rectangle	760.00	10.00		6.000	2.000	676.81	33.84	710.65
4									
5									
6									
7									
8									
9									
10									
							Total Volume BBLS		847.00

Area	Shape	Length in feet	Width in feet	Diameter (for circular)	Standing Depth in inches	Depth in Soil in inches	Standing Volume	In Soil Volume	Total Volume
1	Rectangle	100.00	11.00		6.000	2.000	97.96	4.90	102.86
2	Rectangle	785.00	10.00		0.250	0.250	29.13	4.37	33.50
3	Rectangle	760.00	10.00		6.000	2.000	676.81	33.84	710.65
4									
5									
6									
7									
8									
9									
10									
							Total Volume BBLS		847.00

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

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 144084
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/16/2022

Appendix B

Karst Potential Map


Salado Draw Pad 415
Medium

Appendix C

NMOCD Communications

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

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 209343
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation Plan approved with the following conditions; 1) No remedial activity is required for the following areas; from S-1 area - approximately 2,044 square feet (ft.2), from S-6 area - approximately 1,422 ft.2, from C-1, C-9, C-10 area - approximately 500 ft.2, from S-2, S-10, C-4, C-5, C-6, C-7 - approximately 1,746 ft.2,	7/5/2023
nvelez	2) Excavation from S-7 area - approximately 2,366 ft.2, required to reach, at a minimum, 1 foot below ground surface (bgs). 3) Excavation from S-4 and S-5 area - approximately 3,317 ft.2, S-8 area - approximately 1,110 ft.2, and S-11 and C-3 area - approximately 442 ft.2, required to reach, at a minimum, 3 ½ ft. bgs. 4) Collect confirmation samples per five point composite every 200 ft.2 from excavation base and sidewalls. 5) Sample laboratory analysis for chloride only,	7/5/2023
nvelez	6) Remediation Due date updated to October 3, 2023 to submit final closure report with photos of excavated areas prior to backfill. 7) Backfill excavation as stated in report.	7/5/2023

Daniel St. Germain

From: Robert Nelson
Sent: Tuesday, November 14, 2023 8:33 AM
To: Daniel St. Germain
Subject: FW: Salado Draw Pad 415 (nAPP2225935775) Excavation Backfill Notification
Attachments: Table 2 Confirmation Soil Sample Analytical Data Summary -SD Pad 15.pdf; Figure 4 - Aerial Map Showing Excavation Area and Confirmation Samples Extended SW.pdf

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

From: Robert Nelson
Sent: Wednesday, October 18, 2023 4:20 PM
To: Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Halie Butler <hbutler@selectwater.com>; Timsan Bricker <TBricker@selectwater.com>; Mark Larson <Mark@laenvironmental.com>
Subject: Salado Draw Pad 415 (nAPP2225935775) Excavation Backfill Notification

Hello Mr. Hamlet and Mr. Velez,

Larson & Associates, Inc. (LAI), on behalf of Select Water, submits the attached confirmation (post remediation) laboratory analytical data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling the excavation at the Salado Draw Pad 415 (nAPP2225935775) in Lea County, New Mexico. A deferral for sidewall sample C-39 has been requested based on proximity to electrical pole/lease road. Please feel free to contact Halie Butler with Select at hbutler@selectwater.com, Mark Larson (432) 687-0901 or mark@laenvironmental.com, or me with any questions or concerns.

Thank you,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

Appendix D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/6/2023 11:37:05 AM

JOB DESCRIPTION

Salado Draw Pad 415
SDG NUMBER 22-0104-07

JOB NUMBER

880-32778-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
9/6/2023 11:37:05 AM

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Laboratory Job ID: 880-32778-1
SDG: 22-0104-07

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Job ID: 880-32778-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32778-1

Receipt
The samples were received on 9/1/2023 8:28 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 -4.2º C.

Receipt Exceptions
One or more containers for the following samples were received empty: C-35, 4.1 (880-32778-25).

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-61717 and analytical batch 880-61845 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.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-11, 4.1
Lab Sample ID: 880-32778-1
Date Collected: 08/31/23 09:00
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		5.04		mg/Kg			09/05/23 16:21	1

Client Sample ID: C-12, 4.1
Lab Sample ID: 880-32778-2
Date Collected: 08/31/23 09:10
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.1		mg/Kg			09/05/23 16:40	5

Client Sample ID: C-13, 4.1
Lab Sample ID: 880-32778-3
Date Collected: 08/31/23 09:20
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330		25.3		mg/Kg			09/05/23 16:46	5

Client Sample ID: C-14, 4.1
Lab Sample ID: 880-32778-4
Date Collected: 08/31/23 09:30
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3560		25.3		mg/Kg			09/05/23 16:53	5

Client Sample ID: C-15, 4.1
Lab Sample ID: 880-32778-5
Date Collected: 08/31/23 09:40
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4770		50.3		mg/Kg			09/05/23 16:59	10

Client Sample ID: C-16, 4.1
Lab Sample ID: 880-32778-6
Date Collected: 08/31/23 09:50
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3080		25.0		mg/Kg			09/05/23 17:18	5

Client Sample ID: C-17, 4.1
Lab Sample ID: 880-32778-7
Date Collected: 08/31/23 10:00
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		4.97		mg/Kg			09/05/23 17:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-18, 4.1
Lab Sample ID: 880-32778-8
Date Collected: 08/31/23 10:10
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5480		50.2		mg/Kg			09/05/23 17:31	10

Client Sample ID: C-19, 4.1
Lab Sample ID: 880-32778-9
Date Collected: 08/31/23 10:20
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	356		4.96		mg/Kg			09/05/23 17:37	1

Client Sample ID: C-20, 4.1
Lab Sample ID: 880-32778-10
Date Collected: 08/31/23 10:30
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		24.9		mg/Kg			09/05/23 17:44	5

Client Sample ID: C-21, 4.1
Lab Sample ID: 880-32778-11
Date Collected: 08/31/23 10:40
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.01		mg/Kg			09/05/23 17:50	1

Client Sample ID: C-22, 4.1
Lab Sample ID: 880-32778-12
Date Collected: 08/31/23 10:50
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		25.1		mg/Kg			09/05/23 18:10	5

Client Sample ID: C-23, 4.1
Lab Sample ID: 880-32778-13
Date Collected: 08/31/23 11:00
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		25.1		mg/Kg			09/05/23 20:04	5

Client Sample ID: C-24, 4.1
Lab Sample ID: 880-32778-14
Date Collected: 08/31/23 11:10
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		24.9		mg/Kg			09/05/23 20:24	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-25, 1
Lab Sample ID: 880-32778-15
Date Collected: 08/31/23 11:20
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		5.01		mg/Kg			09/05/23 20:30	1

Client Sample ID: C-26, 1
Lab Sample ID: 880-32778-16
Date Collected: 08/31/23 11:30
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		5.05		mg/Kg			09/05/23 20:37	1

Client Sample ID: C-27, 1
Lab Sample ID: 880-32778-17
Date Collected: 08/31/23 11:40
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		5.04		mg/Kg			09/05/23 20:43	1

Client Sample ID: C-28, 1
Lab Sample ID: 880-32778-18
Date Collected: 08/31/23 11:50
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		4.99		mg/Kg			09/05/23 21:02	1

Client Sample ID: C-29, 1
Lab Sample ID: 880-32778-19
Date Collected: 08/31/23 12:00
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.4		4.97		mg/Kg			09/05/23 21:09	1

Client Sample ID: C-30, 1
Lab Sample ID: 880-32778-20
Date Collected: 08/31/23 12:10
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.97		mg/Kg			09/05/23 21:15	1

Client Sample ID: C-31, 1
Lab Sample ID: 880-32778-21
Date Collected: 08/31/23 12:20
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		4.96		mg/Kg			09/05/23 21:21	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-32, 1
Lab Sample ID: 880-32778-22
Date Collected: 08/31/23 12:30
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.0		4.99		mg/Kg			09/05/23 21:28	1

Client Sample ID: C-33, 4.1
Lab Sample ID: 880-32778-23
Date Collected: 08/31/23 12:40
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2590		25.2		mg/Kg			09/05/23 21:34	5

Client Sample ID: C-34, 4.1
Lab Sample ID: 880-32778-24
Date Collected: 08/31/23 12:50
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		25.2		mg/Kg			09/05/23 21:53	5

Client Sample ID: C-36, 0-4.1
Lab Sample ID: 880-32778-26
Date Collected: 08/31/23 13:10
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	972		4.97		mg/Kg			09/05/23 22:00	1

Client Sample ID: C-37, 0-4.1
Lab Sample ID: 880-32778-27
Date Collected: 08/31/23 13:20
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	975		5.03		mg/Kg			09/05/23 22:19	1

Client Sample ID: C-38, 0-4.1
Lab Sample ID: 880-32778-28
Date Collected: 08/31/23 13:30
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	835		5.02		mg/Kg			09/05/23 22:25	1

Client Sample ID: C-39, 0-4.1
Lab Sample ID: 880-32778-29
Date Collected: 08/31/23 13:40
Matrix: Solid
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	814		5.02		mg/Kg			09/05/23 22:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-40, 0-4.1

Lab Sample ID: 880-32778-30
Matrix: Solid
Date Collected: 08/31/23 13:50
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	853		4.99		mg/Kg			09/05/23 22:38	1

Client Sample ID: C-41, 0-4.1

Lab Sample ID: 880-32778-31
Matrix: Solid
Date Collected: 08/31/23 14:00
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	805		5.00		mg/Kg			09/05/23 22:44	1

Client Sample ID: C-42, 0-4.1

Lab Sample ID: 880-32778-32
Matrix: Solid
Date Collected: 08/31/23 14:10
Date Received: 09/01/23 08:28

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	633		4.96		mg/Kg			09/05/23 22:51	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61717/1-A
Matrix: Solid
Analysis Batch: 61845

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			09/05/23 16:02	1

Lab Sample ID: LCS 880-61717/2-A
Matrix: Solid
Analysis Batch: 61845

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-61717/3-A
Matrix: Solid
Analysis Batch: 61845

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	250.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-32778-1 MS
Matrix: Solid
Analysis Batch: 61845

Client Sample ID: C-11, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1040		252	1255	4	mg/Kg		87	90 - 110		

Lab Sample ID: 880-32778-1 MSD
Matrix: Solid
Analysis Batch: 61845

Client Sample ID: C-11, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1040		252	1254	4	mg/Kg		87	90 - 110	0	20

Lab Sample ID: 880-32778-11 MS
Matrix: Solid
Analysis Batch: 61845

Client Sample ID: C-21, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1090		251	1293	4	mg/Kg		83	90 - 110		

Lab Sample ID: 880-32778-11 MSD
Matrix: Solid
Analysis Batch: 61845

Client Sample ID: C-21, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090		251	1290	4	mg/Kg		81	90 - 110	0	20

Lab Sample ID: MB 880-61718/1-A
Matrix: Solid
Analysis Batch: 61846

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			09/05/23 19:45	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-61718/2-A
Matrix: Solid
Analysis Batch: 61846

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.9		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-61718/3-A
Matrix: Solid
Analysis Batch: 61846

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	251.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-32778-13 MS
Matrix: Solid
Analysis Batch: 61846

Client Sample ID: C-23, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2290		1260	3598		mg/Kg		104	90 - 110		

Lab Sample ID: 880-32778-13 MSD
Matrix: Solid
Analysis Batch: 61846

Client Sample ID: C-23, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2290		1260	3603		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-32778-23 MS
Matrix: Solid
Analysis Batch: 61846

Client Sample ID: C-33, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2590		1260	3907		mg/Kg		105	90 - 110		

Lab Sample ID: 880-32778-23 MSD
Matrix: Solid
Analysis Batch: 61846

Client Sample ID: C-33, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2590		1260	3912		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

HPLC/IC

Leach Batch: 61717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32778-1	C-11, 4.1	Soluble	Solid	DI Leach	
880-32778-2	C-12, 4.1	Soluble	Solid	DI Leach	
880-32778-3	C-13, 4.1	Soluble	Solid	DI Leach	
880-32778-4	C-14, 4.1	Soluble	Solid	DI Leach	
880-32778-5	C-15, 4.1	Soluble	Solid	DI Leach	
880-32778-6	C-16, 4.1	Soluble	Solid	DI Leach	
880-32778-7	C-17, 4.1	Soluble	Solid	DI Leach	
880-32778-8	C-18, 4.1	Soluble	Solid	DI Leach	
880-32778-9	C-19, 4.1	Soluble	Solid	DI Leach	
880-32778-10	C-20, 4.1	Soluble	Solid	DI Leach	
880-32778-11	C-21, 4.1	Soluble	Solid	DI Leach	
880-32778-12	C-22, 4.1	Soluble	Solid	DI Leach	
MB 880-61717/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61717/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61717/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32778-1 MS	C-11, 4.1	Soluble	Solid	DI Leach	
880-32778-1 MSD	C-11, 4.1	Soluble	Solid	DI Leach	
880-32778-11 MS	C-21, 4.1	Soluble	Solid	DI Leach	
880-32778-11 MSD	C-21, 4.1	Soluble	Solid	DI Leach	

Leach Batch: 61718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32778-13	C-23, 4.1	Soluble	Solid	DI Leach	
880-32778-14	C-24, 4.1	Soluble	Solid	DI Leach	
880-32778-15	C-25, 1	Soluble	Solid	DI Leach	
880-32778-16	C-26, 1	Soluble	Solid	DI Leach	
880-32778-17	C-27, 1	Soluble	Solid	DI Leach	
880-32778-18	C-28, 1	Soluble	Solid	DI Leach	
880-32778-19	C-29, 1	Soluble	Solid	DI Leach	
880-32778-20	C-30, 1	Soluble	Solid	DI Leach	
880-32778-21	C-31, 1	Soluble	Solid	DI Leach	
880-32778-22	C-32, 1	Soluble	Solid	DI Leach	
880-32778-23	C-33, 4.1	Soluble	Solid	DI Leach	
880-32778-24	C-34, 4.1	Soluble	Solid	DI Leach	
880-32778-26	C-36, 0-4.1	Soluble	Solid	DI Leach	
880-32778-27	C-37, 0-4.1	Soluble	Solid	DI Leach	
880-32778-28	C-38, 0-4.1	Soluble	Solid	DI Leach	
880-32778-29	C-39, 0-4.1	Soluble	Solid	DI Leach	
880-32778-30	C-40, 0-4.1	Soluble	Solid	DI Leach	
880-32778-31	C-41, 0-4.1	Soluble	Solid	DI Leach	
880-32778-32	C-42, 0-4.1	Soluble	Solid	DI Leach	
MB 880-61718/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61718/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61718/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32778-13 MS	C-23, 4.1	Soluble	Solid	DI Leach	
880-32778-13 MSD	C-23, 4.1	Soluble	Solid	DI Leach	
880-32778-23 MS	C-33, 4.1	Soluble	Solid	DI Leach	
880-32778-23 MSD	C-33, 4.1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

HPLC/IC

Analysis Batch: 61845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32778-1	C-11, 4.1	Soluble	Solid	300.0	61717
880-32778-2	C-12, 4.1	Soluble	Solid	300.0	61717
880-32778-3	C-13, 4.1	Soluble	Solid	300.0	61717
880-32778-4	C-14, 4.1	Soluble	Solid	300.0	61717
880-32778-5	C-15, 4.1	Soluble	Solid	300.0	61717
880-32778-6	C-16, 4.1	Soluble	Solid	300.0	61717
880-32778-7	C-17, 4.1	Soluble	Solid	300.0	61717
880-32778-8	C-18, 4.1	Soluble	Solid	300.0	61717
880-32778-9	C-19, 4.1	Soluble	Solid	300.0	61717
880-32778-10	C-20, 4.1	Soluble	Solid	300.0	61717
880-32778-11	C-21, 4.1	Soluble	Solid	300.0	61717
880-32778-12	C-22, 4.1	Soluble	Solid	300.0	61717
MB 880-61717/1-A	Method Blank	Soluble	Solid	300.0	61717
LCS 880-61717/2-A	Lab Control Sample	Soluble	Solid	300.0	61717
LCSD 880-61717/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61717
880-32778-1 MS	C-11, 4.1	Soluble	Solid	300.0	61717
880-32778-1 MSD	C-11, 4.1	Soluble	Solid	300.0	61717
880-32778-11 MS	C-21, 4.1	Soluble	Solid	300.0	61717
880-32778-11 MSD	C-21, 4.1	Soluble	Solid	300.0	61717

Analysis Batch: 61846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32778-13	C-23, 4.1	Soluble	Solid	300.0	61718
880-32778-14	C-24, 4.1	Soluble	Solid	300.0	61718
880-32778-15	C-25, 1	Soluble	Solid	300.0	61718
880-32778-16	C-26, 1	Soluble	Solid	300.0	61718
880-32778-17	C-27, 1	Soluble	Solid	300.0	61718
880-32778-18	C-28, 1	Soluble	Solid	300.0	61718
880-32778-19	C-29, 1	Soluble	Solid	300.0	61718
880-32778-20	C-30, 1	Soluble	Solid	300.0	61718
880-32778-21	C-31, 1	Soluble	Solid	300.0	61718
880-32778-22	C-32, 1	Soluble	Solid	300.0	61718
880-32778-23	C-33, 4.1	Soluble	Solid	300.0	61718
880-32778-24	C-34, 4.1	Soluble	Solid	300.0	61718
880-32778-26	C-36, 0-4.1	Soluble	Solid	300.0	61718
880-32778-27	C-37, 0-4.1	Soluble	Solid	300.0	61718
880-32778-28	C-38, 0-4.1	Soluble	Solid	300.0	61718
880-32778-29	C-39, 0-4.1	Soluble	Solid	300.0	61718
880-32778-30	C-40, 0-4.1	Soluble	Solid	300.0	61718
880-32778-31	C-41, 0-4.1	Soluble	Solid	300.0	61718
880-32778-32	C-42, 0-4.1	Soluble	Solid	300.0	61718
MB 880-61718/1-A	Method Blank	Soluble	Solid	300.0	61718
LCS 880-61718/2-A	Lab Control Sample	Soluble	Solid	300.0	61718
LCSD 880-61718/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61718
880-32778-13 MS	C-23, 4.1	Soluble	Solid	300.0	61718
880-32778-13 MSD	C-23, 4.1	Soluble	Solid	300.0	61718
880-32778-23 MS	C-33, 4.1	Soluble	Solid	300.0	61718
880-32778-23 MSD	C-33, 4.1	Soluble	Solid	300.0	61718

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-11, 4.1
Date Collected: 08/31/23 09:00
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-1
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			4.96 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		1			61845	09/05/23 16:21	CH	EET MID

Client Sample ID: C-12, 4.1
Date Collected: 08/31/23 09:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-2
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	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 16:40	CH	EET MID

Client Sample ID: C-13, 4.1
Date Collected: 08/31/23 09:20
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-3
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			4.95 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 16:46	CH	EET MID

Client Sample ID: C-14, 4.1
Date Collected: 08/31/23 09:30
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-4
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			4.95 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 16:53	CH	EET MID

Client Sample ID: C-15, 4.1
Date Collected: 08/31/23 09:40
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-5
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			4.97 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		10			61845	09/05/23 16:59	CH	EET MID

Client Sample ID: C-16, 4.1
Date Collected: 08/31/23 09:50
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-6
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			5.01 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 17:18	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-17, 4.1
Date Collected: 08/31/23 10:00
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-7
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			5.03 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		1			61845	09/05/23 17:25	CH	EET MID

Client Sample ID: C-18, 4.1
Date Collected: 08/31/23 10:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-8
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	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		10			61845	09/05/23 17:31	CH	EET MID

Client Sample ID: C-19, 4.1
Date Collected: 08/31/23 10:20
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-9
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			5.04 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		1			61845	09/05/23 17:37	CH	EET MID

Client Sample ID: C-20, 4.1
Date Collected: 08/31/23 10:30
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-10
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			5.03 g	50 mL	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 17:44	CH	EET MID

Client Sample ID: C-21, 4.1
Date Collected: 08/31/23 10:40
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-11
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	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		1			61845	09/05/23 17:50	CH	EET MID

Client Sample ID: C-22, 4.1
Date Collected: 08/31/23 10:50
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-12
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	61717	09/01/23 09:49	CH	EET MID
Soluble	Analysis	300.0		5			61845	09/05/23 18:10	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-23, 4.1
Date Collected: 08/31/23 11:00
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-13
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	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		5			61846	09/05/23 20:04	CH	EET MID

Client Sample ID: C-24, 4.1
Date Collected: 08/31/23 11:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-14
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			5.02 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		5			61846	09/05/23 20:24	CH	EET MID

Client Sample ID: C-25, 1
Date Collected: 08/31/23 11:20
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-15
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	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 20:30	CH	EET MID

Client Sample ID: C-26, 1
Date Collected: 08/31/23 11:30
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-16
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			4.95 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 20:37	CH	EET MID

Client Sample ID: C-27, 1
Date Collected: 08/31/23 11:40
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 20:43	CH	EET MID

Client Sample ID: C-28, 1
Date Collected: 08/31/23 11:50
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-18
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			5.01 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 21:02	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-29, 1
Date Collected: 08/31/23 12:00
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-19
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			5.03 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 21:09	CH	EET MID

Client Sample ID: C-30, 1
Date Collected: 08/31/23 12:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-20
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			5.03 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 21:15	CH	EET MID

Client Sample ID: C-31, 1
Date Collected: 08/31/23 12:20
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-21
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			5.04 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 21:21	CH	EET MID

Client Sample ID: C-32, 1
Date Collected: 08/31/23 12:30
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-22
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			5.01 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 21:28	CH	EET MID

Client Sample ID: C-33, 4.1
Date Collected: 08/31/23 12:40
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-23
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			4.97 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		5			61846	09/05/23 21:34	CH	EET MID

Client Sample ID: C-34, 4.1
Date Collected: 08/31/23 12:50
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-24
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			4.96 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		5			61846	09/05/23 21:53	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-36, 0-4.1
Date Collected: 08/31/23 13:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-26
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			5.03 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:00	CH	EET MID

Client Sample ID: C-37, 0-4.1
Date Collected: 08/31/23 13:20
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-27
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			4.97 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:19	CH	EET MID

Client Sample ID: C-38, 0-4.1
Date Collected: 08/31/23 13:30
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-28
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	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:25	CH	EET MID

Client Sample ID: C-39, 0-4.1
Date Collected: 08/31/23 13:40
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-29
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	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:32	CH	EET MID

Client Sample ID: C-40, 0-4.1
Date Collected: 08/31/23 13:50
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-30
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			5.01 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:38	CH	EET MID

Client Sample ID: C-41, 0-4.1
Date Collected: 08/31/23 14:00
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-31
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			5 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:44	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Client Sample ID: C-42, 0-4.1

Date Collected: 08/31/23 14:10
Date Received: 09/01/23 08:28

Lab Sample ID: 880-32778-32

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			5.04 g	50 mL	61718	09/01/23 09:51	CH	EET MID
Soluble	Analysis	300.0		1			61846	09/05/23 22:51	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Salado Draw Pad 415

Job ID: 880-32778-1
SDG: 22-0104-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32778-1	C-11, 4.1	Solid	08/31/23 09:00	09/01/23 08:28
880-32778-2	C-12, 4.1	Solid	08/31/23 09:10	09/01/23 08:28
880-32778-3	C-13, 4.1	Solid	08/31/23 09:20	09/01/23 08:28
880-32778-4	C-14, 4.1	Solid	08/31/23 09:30	09/01/23 08:28
880-32778-5	C-15, 4.1	Solid	08/31/23 09:40	09/01/23 08:28
880-32778-6	C-16, 4.1	Solid	08/31/23 09:50	09/01/23 08:28
880-32778-7	C-17, 4.1	Solid	08/31/23 10:00	09/01/23 08:28
880-32778-8	C-18, 4.1	Solid	08/31/23 10:10	09/01/23 08:28
880-32778-9	C-19, 4.1	Solid	08/31/23 10:20	09/01/23 08:28
880-32778-10	C-20, 4.1	Solid	08/31/23 10:30	09/01/23 08:28
880-32778-11	C-21, 4.1	Solid	08/31/23 10:40	09/01/23 08:28
880-32778-12	C-22, 4.1	Solid	08/31/23 10:50	09/01/23 08:28
880-32778-13	C-23, 4.1	Solid	08/31/23 11:00	09/01/23 08:28
880-32778-14	C-24, 4.1	Solid	08/31/23 11:10	09/01/23 08:28
880-32778-15	C-25, 1	Solid	08/31/23 11:20	09/01/23 08:28
880-32778-16	C-26, 1	Solid	08/31/23 11:30	09/01/23 08:28
880-32778-17	C-27, 1	Solid	08/31/23 11:40	09/01/23 08:28
880-32778-18	C-28, 1	Solid	08/31/23 11:50	09/01/23 08:28
880-32778-19	C-29, 1	Solid	08/31/23 12:00	09/01/23 08:28
880-32778-20	C-30, 1	Solid	08/31/23 12:10	09/01/23 08:28
880-32778-21	C-31, 1	Solid	08/31/23 12:20	09/01/23 08:28
880-32778-22	C-32, 1	Solid	08/31/23 12:30	09/01/23 08:28
880-32778-23	C-33, 4.1	Solid	08/31/23 12:40	09/01/23 08:28
880-32778-24	C-34, 4.1	Solid	08/31/23 12:50	09/01/23 08:28
880-32778-26	C-36, 0-4.1	Solid	08/31/23 13:10	09/01/23 08:28
880-32778-27	C-37, 0-4.1	Solid	08/31/23 13:20	09/01/23 08:28
880-32778-28	C-38, 0-4.1	Solid	08/31/23 13:30	09/01/23 08:28
880-32778-29	C-39, 0-4.1	Solid	08/31/23 13:40	09/01/23 08:28
880-32778-30	C-40, 0-4.1	Solid	08/31/23 13:50	09/01/23 08:28
880-32778-31	C-41, 0-4.1	Solid	08/31/23 14:00	09/01/23 08:28
880-32778-32	C-42, 0-4.1	Solid	08/31/23 14:10	09/01/23 08:28

32778 No. 3111

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 8/31/2023 PAGE 1 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Salado Draw Pad 415

LAI PROJECT # 22-0104-07 COLLECTOR. KG

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-11, 4.1		8/31/23	0900	S	1				X		X	20L
C-12, 4.1			0910									
C-13, 4.1			0920									
C-14, 4.1			0930									
C-15, 4.1			0940									
C-16, 4.1			0950									
C-17, 4.1			1000									
C-18, 4.1			1010									
C-19, 4.1			1020									
C-20, 4.1			1030									
C-21, 4.1			1040									
C-22, 4.1			1050									
C-23, 4.1			1100									
C-24, 4.1			1110									
C-25, 1			1120									
TOTAL												

ANALYSES: BTEX ☐ MTBE ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☑ ANIONS ☐ ALKALINITY ☐

880-32778 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 9/1/23 0828	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 -3.9/-4.2 THERM# IR2
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

32778 No. 3112

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 8/31/2023 PAGE 2 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME. Salado Draw Pad 415

LAI PROJECT # 22-0104-07 COLLECTOR KG

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	FIELD NOTES
C-26, 1		8/31/23	1130	S	1				X			
C-27, 1			1140									
C-28, 1			1150									
C-29, 1			1200									
C-30, 1			1210									
C-31, 1			1220									
C-32, 1			1230									
C-33, 4.1			1240									
C-34, 4.1			1250									
C-35, 4.1			1300									
C-36, 0-4.1			1310									
C-37, 0-4.1			1320									
C-38, 0-4.1			1330									
C-39, 0-4.1			1340									
C-40, 0-4.1		"	1350	"	1				1		X	
TOTAL												

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 ☐

RELINQUISHED BY (Signature)	DATE/TIME 9/1/23 0828	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

32778 No. 3113

CHAIN-OF-CUSTODY

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

DATE 8/31/2023 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Salado Draw Rod 415

LAI PROJECT # 22-0104-03 COLLECTOR LL

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
C-41,0-4.1		8/31/23	1400	S	1				X			
C-42,0-4.1		1	1410	1	1				1			

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 ☐

																						X		
																						1		

TOTAL

Loc: 880
32778

RELINQUISHED BY (Signature) DATE/TIME 9/1/23 0828 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: 880-32778-1
SDG Number: 22-0104-07

Login Number: 32778
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/21/2023 1:44:21 PM

JOB DESCRIPTION

Salado Draw Pad 415
SDG NUMBER 22-0104-07

JOB NUMBER

880-33334-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
9/21/2023 1:44:21 PM

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Laboratory Job ID: 880-33334-1
SDG: 22-0104-07

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-33334-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-33334-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Job ID: 880-33334-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-33334-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/18/2023 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-33334-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Client Sample ID: C- 35, 4.1 — Lab Sample ID: 880-33334-1

Date Collected: 09/15/23 11:15 **Matrix: Solid**
Date Received: 09/18/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.7		5.01		mg/Kg			09/20/23 17:43	1

Client Sample ID: C- 3, 5' — Lab Sample ID: 880-33334-2

Date Collected: 09/15/23 12:00 **Matrix: Solid**
Date Received: 09/18/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		4.98		mg/Kg			09/20/23 18:04	1

Client Sample ID: C- 43, 5' — Lab Sample ID: 880-33334-3

Date Collected: 09/15/23 12:05 **Matrix: Solid**
Date Received: 09/18/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		4.95		mg/Kg			09/20/23 18:10	1

Client Sample ID: C- 44, 5' — Lab Sample ID: 880-33334-4

Date Collected: 09/15/23 12:10 **Matrix: Solid**
Date Received: 09/18/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5		4.99		mg/Kg			09/20/23 18:17	1

Client Sample ID: C- 45, 0-5 — Lab Sample ID: 880-33334-5

Date Collected: 09/15/23 12:15 **Matrix: Solid**
Date Received: 09/18/23 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		5.04		mg/Kg			09/20/23 18:24	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-33334-1
SDG: 22-0104-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62761/1-A
Matrix: Solid
Analysis Batch: 62905

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			09/20/23 17:23	1

Lab Sample ID: LCS 880-62761/2-A
Matrix: Solid
Analysis Batch: 62905

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.4		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-62761/3-A
Matrix: Solid
Analysis Batch: 62905

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	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-33334-1 MS
Matrix: Solid
Analysis Batch: 62905

Client Sample ID: C- 35, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	90.7		251	345.9		mg/Kg		102	90 - 110		

Lab Sample ID: 880-33334-1 MSD
Matrix: Solid
Analysis Batch: 62905

Client Sample ID: C- 35, 4.1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	90.7		251	347.2		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-33334-1
SDG: 22-0104-07

HPLC/IC

Leach Batch: 62761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33334-1	C- 35, 4.1	Soluble	Solid	DI Leach	
880-33334-2	C- 3, 5'	Soluble	Solid	DI Leach	
880-33334-3	C- 43, 5'	Soluble	Solid	DI Leach	
880-33334-4	C- 44, 5'	Soluble	Solid	DI Leach	
880-33334-5	C- 45, 0-5	Soluble	Solid	DI Leach	
MB 880-62761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33334-1 MS	C- 35, 4.1	Soluble	Solid	DI Leach	
880-33334-1 MSD	C- 35, 4.1	Soluble	Solid	DI Leach	

Analysis Batch: 62905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33334-1	C- 35, 4.1	Soluble	Solid	300.0	62761
880-33334-2	C- 3, 5'	Soluble	Solid	300.0	62761
880-33334-3	C- 43, 5'	Soluble	Solid	300.0	62761
880-33334-4	C- 44, 5'	Soluble	Solid	300.0	62761
880-33334-5	C- 45, 0-5	Soluble	Solid	300.0	62761
MB 880-62761/1-A	Method Blank	Soluble	Solid	300.0	62761
LCS 880-62761/2-A	Lab Control Sample	Soluble	Solid	300.0	62761
LCSD 880-62761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62761
880-33334-1 MS	C- 35, 4.1	Soluble	Solid	300.0	62761
880-33334-1 MSD	C- 35, 4.1	Soluble	Solid	300.0	62761

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-33334-1
SDG: 22-0104-07

Client Sample ID: C- 35, 4.1

Lab Sample ID: 880-33334-1
Matrix: Solid
Date Collected: 09/15/23 11:15
Date Received: 09/18/23 09:15

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	62761	09/18/23 14:41	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62905	09/20/23 17:43	SMC	EET MID

Client Sample ID: C- 3, 5'

Lab Sample ID: 880-33334-2
Matrix: Solid
Date Collected: 09/15/23 12:00
Date Received: 09/18/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	62761	09/18/23 14:41	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62905	09/20/23 18:04	SMC	EET MID

Client Sample ID: C- 43, 5'

Lab Sample ID: 880-33334-3
Matrix: Solid
Date Collected: 09/15/23 12:05
Date Received: 09/18/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	62761	09/18/23 14:41	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62905	09/20/23 18:10	SMC	EET MID

Client Sample ID: C- 44, 5'

Lab Sample ID: 880-33334-4
Matrix: Solid
Date Collected: 09/15/23 12:10
Date Received: 09/18/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	62761	09/18/23 14:41	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62905	09/20/23 18:17	SMC	EET MID

Client Sample ID: C- 45, 0-5

Lab Sample ID: 880-33334-5
Matrix: Solid
Date Collected: 09/15/23 12:15
Date Received: 09/18/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	62761	09/18/23 14:41	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62905	09/20/23 18:24	SMC	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: 880-33334-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-33334-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Salado Draw Pad 415

Job ID: 880-33334-1
SDG: 22-0104-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33334-1	C- 35, 4.1	Solid	09/15/23 11:15	09/18/23 09:15
880-33334-2	C- 3, 5'	Solid	09/15/23 12:00	09/18/23 09:15
880-33334-3	C- 43, 5'	Solid	09/15/23 12:05	09/18/23 09:15
880-33334-4	C- 44, 5'	Solid	09/15/23 12:10	09/18/23 09:15
880-33334-5	C- 45, 0-5	Solid	09/15/23 12:15	09/18/23 09:15

No. 3121

CHAIN-OF-CUSTODY

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

DATE 9/18/2023 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Salado Draw Pad 415

LAI PROJECT # 22-0104-07 COLLECTOR KL

Data Reported to

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/MDT

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-35, 4.1		9/15/23	1155	S	1				X		X	207
C-3 5'			1200									
C-43, 5'			1205									
C-44, 5'			1210									
C-45, 0-5			1215									

ANALYSES: BTEX ☐ MTBE ☐ TPH 1005 ☐ TPH 1006 ☐ TRPH 418.1 ☐ 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 ☐

TOTAL

RELINQUISHED BY (Signature) DATE/TIME 9/18/2023 0915 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 2.9/2.6 THERM# 5R8-36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

880-33334 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-33334-1
SDG Number: 22-0104-07

Login Number: 33334
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/9/2023 10:39:08 AM

JOB DESCRIPTION

Salado Draw Pad 415
SDG NUMBER 22-0104-07

JOB NUMBER

880-34003-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
10/9/2023 10:39:08 AM

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Laboratory Job ID: 880-34003-1
SDG: 22-0104-07

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QC Association Summary 8
Lab Chronicle 9
Certification Summary 10
Method Summary 11
Sample Summary 12
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Receipt Checklists 14

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-34003-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-34003-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Job ID: 880-34003-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34003-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/4/2023 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-39 (880-34003-1) and C-41 (880-34003-2).

Per Daniel St Germain, BTEX and TPH were cancelled on both samples (phone 10/5/2023)

C-39 (880-34003-1) and C-41 (880-34003-2)

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-34003-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Client Sample ID: C-39 Lab Sample ID: 880-34003-1

Date Collected: 10/03/23 12:15 **Matrix: Solid**
Date Received: 10/04/23 09:34

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.1		mg/Kg			10/06/23 14:34	5

Client Sample ID: C-41 Lab Sample ID: 880-34003-2

Date Collected: 10/03/23 12:20 **Matrix: Solid**
Date Received: 10/04/23 09:34

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441		4.95		mg/Kg			10/06/23 14:41	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34003-1
SDG: 22-0104-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63962/1-A
Matrix: Solid
Analysis Batch: 64137

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			10/06/23 12:54	1

Lab Sample ID: LCS 880-63962/2-A
Matrix: Solid
Analysis Batch: 64137

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.0		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-63962/3-A
Matrix: Solid
Analysis Batch: 64137

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	244.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34003-1
SDG: 22-0104-07

HPLC/IC

Leach Batch: 63962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34003-1	C-39	Soluble	Solid	DI Leach	
880-34003-2	C-41	Soluble	Solid	DI Leach	
MB 880-63962/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63962/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63962/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 64137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34003-1	C-39	Soluble	Solid	300.0	63962
880-34003-2	C-41	Soluble	Solid	300.0	63962
MB 880-63962/1-A	Method Blank	Soluble	Solid	300.0	63962
LCS 880-63962/2-A	Lab Control Sample	Soluble	Solid	300.0	63962
LCSD 880-63962/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63962

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34003-1
SDG: 22-0104-07

Client Sample ID: C-39

Date Collected: 10/03/23 12:15
Date Received: 10/04/23 09:34

Lab Sample ID: 880-34003-1

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	63962	10/04/23 16:12	AG	EET MID
Soluble	Analysis	300.0		5			64137	10/06/23 14:34	SMC	EET MID

Client Sample ID: C-41

Date Collected: 10/03/23 12:20
Date Received: 10/04/23 09:34

Lab Sample ID: 880-34003-2

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			5.05 g	50 mL	63962	10/04/23 16:12	AG	EET MID
Soluble	Analysis	300.0		1			64137	10/06/23 14:41	SMC	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: 880-34003-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-34003-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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: Salado Draw Pad 415

Job ID: 880-34003-1
SDG: 22-0104-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34003-1	C-39	Solid	10/03/23 12:15	10/04/23 09:34
880-34003-2	C-41	Solid	10/03/23 12:20	10/04/23 09:34

4003

No. 3038

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 10/4/2023 PAGE 1 OF 1

PO#. LAB WORK ORDER#

PROJECT LOCATION OR NAME Salado Draw Pad 415

LAI PROJECT # 22-0104-07 COLLECTOR DSG/KG

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT / 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 ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-39		10/3/23	1215	S	1				X		X		X	X	X																															
C-41		10/3/23	1220	S	1				X		X		X	X	X																															

880-34003 Chain of Custody

TOTAL 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Dana Ogden	10/4/23 934	
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 5.9/5.6 S7 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-34003-1
SDG Number: 22-0104-07

Login Number: 34003
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/13/2023 2:19:10 PM

JOB DESCRIPTION

Salado Draw Pad 415
SDG NUMBER 22-0104-07

JOB NUMBER

880-34133-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
10/13/2023 2:19:10 PM

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Laboratory Job ID: 880-34133-1
SDG: 22-0104-07

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-34133-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Job ID: 880-34133-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-34133-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/9/2023 8:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-36 0-4.1' (880-34133-1), C-37 0-4.1' (880-34133-2), C-38 0-4.1' (880-34133-3), C-40 0-4.1' (880-34133-4) and C-42 0-4.1' (880-34133-5).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-64194 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-64194/51).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63929 and 880-64197 and analytical batch 880-64194 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-40 0-4.1' (880-34133-4), (LCSD 880-64149/2-A) and (890-5414-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-64149 and analytical batch 880-64401 was outside the upper control limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-64312 and analytical batch 880-64318 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-36 0-4.1' (880-34133-1), C-37 0-4.1' (880-34133-2), C-38 0-4.1' (880-34133-3), C-40 0-4.1' (880-34133-4), C-42 0-4.1' (880-34133-5), (890-5415-A-4-D MS) and (890-5415-A-4-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-64318/20), (CCV 880-64318/31), (CCV 880-64318/5) and (LCS 880-64312/2-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Job ID: 880-34133-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-36 0-4.1'

Lab Sample ID: 880-34133-1
Matrix: Solid
Date Collected: 10/05/23 11:40
Date Received: 10/09/23 08:23

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		10/09/23 13:00	10/10/23 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/09/23 13:00	10/10/23 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/09/23 13:00	10/10/23 14:25	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		10/09/23 13:00	10/10/23 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/09/23 13:00	10/10/23 14:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/09/23 13:00	10/10/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*10/09/23 13:00*	*10/10/23 14:25*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*10/09/23 13:00*	*10/10/23 14:25*	*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			10/10/23 14:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/10/23 15:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/10/23 08:39	10/10/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/10/23 08:39	10/10/23 15:09	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/10/23 08:39	10/10/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 15:09*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*10/10/23 08:39*	*10/10/23 15:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		4.98		mg/Kg			10/12/23 15:46	1

Client Sample ID: C-37 0-4.1'

Lab Sample ID: 880-34133-2
Matrix: Solid
Date Collected: 10/05/23 11:50
Date Received: 10/09/23 08:23

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		10/09/23 13:00	10/10/23 14:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 14:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 14:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/09/23 13:00	10/10/23 14:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 14:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/09/23 13:00	10/10/23 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*10/09/23 13:00*	*10/10/23 14:51*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/09/23 13:00*	*10/10/23 14:51*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-37 0-4.1'

Date Collected: 10/05/23 11:50
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-2
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			10/10/23 14:51	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			10/10/23 15:30	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		10/10/23 08:39	10/10/23 15:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/10/23 08:39	10/10/23 15:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/10/23 08:39	10/10/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*151*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 15:30*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*10/10/23 08:39*	*10/10/23 15:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		4.96		mg/Kg			10/12/23 15:52	1

Client Sample ID: C-38 0-4.1'

Date Collected: 10/05/23 12:00
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-3
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		10/09/23 13:00	10/10/23 15:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 15:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 15:17	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		10/09/23 13:00	10/10/23 15:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/09/23 13:00	10/10/23 15:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/09/23 13:00	10/10/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*10/09/23 13:00*	*10/10/23 15:17*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*10/09/23 13:00*	*10/10/23 15:17*	*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			10/10/23 15:17	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			10/10/23 15:52	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		10/10/23 08:39	10/10/23 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/10/23 08:39	10/10/23 15:52	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-38 0-4.1'

Date Collected: 10/05/23 12:00
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/10/23 08:39	10/10/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*169*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 15:52*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 15:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**157**		4.99		mg/Kg			10/12/23 16:12	1

Client Sample ID: C-40 0-4.1'

Date Collected: 10/05/23 12:10
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-4
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		10/09/23 17:00	10/11/23 15:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/09/23 17:00	10/11/23 15:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/09/23 17:00	10/11/23 15:34	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		10/09/23 17:00	10/11/23 15:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/09/23 17:00	10/11/23 15:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/09/23 17:00	10/11/23 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*10/09/23 17:00*	*10/11/23 15:34*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/09/23 17:00*	*10/11/23 15:34*	*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			10/11/23 15:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			10/10/23 16:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		10/10/23 08:39	10/10/23 16:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/10/23 08:39	10/10/23 16:36	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/10/23 08:39	10/10/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 16:36*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*10/10/23 08:39*	*10/10/23 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**234**		5.00		mg/Kg			10/12/23 16:19	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-42 0-4.1'
Date Collected: 10/05/23 12:40
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-5
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		10/09/23 17:00	10/11/23 16:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/09/23 17:00	10/11/23 16:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/09/23 17:00	10/11/23 16:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		10/09/23 17:00	10/11/23 16:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/09/23 17:00	10/11/23 16:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/09/23 17:00	10/11/23 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*10/09/23 17:00*	*10/11/23 16:01*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*10/09/23 17:00*	*10/11/23 16:01*	*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			10/11/23 16:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			10/10/23 16:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/10/23 08:39	10/10/23 16:58	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/10/23 08:39	10/10/23 16:58	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/10/23 08:39	10/10/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*10/10/23 08:39*	*10/10/23 16:58*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*10/10/23 08:39*	*10/10/23 16:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**266**		4.98		mg/Kg			10/12/23 16:25	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

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)										
880-34133-1	C-36 0-4.1'	125	107										
880-34133-2	C-37 0-4.1'	129	102										
880-34133-3	C-38 0-4.1'	126	108										
880-34133-4	C-40 0-4.1'	133 S1+	87										
880-34133-5	C-42 0-4.1'	113	123										
LCS 880-64149/1-A	Lab Control Sample	124	103										
LCS 880-64197/1-A	Lab Control Sample	114	97										
LCSD 880-64149/2-A	Lab Control Sample Dup	136 S1+	113										
LCSD 880-64197/2-A	Lab Control Sample Dup	112	79										
MB 880-63929/5-A	Method Blank	66 S1-	95										
MB 880-64149/5-A	Method Blank	68 S1-	93										
MB 880-64197/5-A	Method Blank	68 S1-	87										

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)										
880-34133-1	C-36 0-4.1'	138 S1+	118										
880-34133-2	C-37 0-4.1'	151 S1+	128										
880-34133-3	C-38 0-4.1'	169 S1+	142 S1+										
880-34133-4	C-40 0-4.1'	134 S1+	115										
880-34133-5	C-42 0-4.1'	146 S1+	125										
LCS 880-64312/2-A	Lab Control Sample	126	135 S1+										
LCSD 880-64312/3-A	Lab Control Sample Dup	97	97										
MB 880-64312/1-A	Method Blank	189 S1+	176 S1+										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63929/5-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63929

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/23 09:20	10/09/23 12:21	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/04/23 09:20	10/09/23 12:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/23 09:20	10/09/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/23 09:20	10/09/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*10/04/23 09:20*	*10/09/23 12:21*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*10/04/23 09:20*	*10/09/23 12:21*	*1*

Lab Sample ID: MB 880-64149/5-A
Matrix: Solid
Analysis Batch: 64401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64149

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/06/23 15:31	10/11/23 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/06/23 15:31	10/11/23 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/06/23 15:31	10/11/23 11:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/06/23 15:31	10/11/23 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/06/23 15:31	10/11/23 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/06/23 15:31	10/11/23 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*10/06/23 15:31*	*10/11/23 11:39*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/06/23 15:31*	*10/11/23 11:39*	*1*

Lab Sample ID: LCS 880-64149/1-A
Matrix: Solid
Analysis Batch: 64401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64149

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1146		mg/Kg		115	70 - 130		
Toluene			0.100	0.1236		mg/Kg		124	70 - 130		
Ethylbenzene			0.100	0.1173		mg/Kg		117	70 - 130		
m,p-Xylenes			0.200	0.2229		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-64149/2-A
Matrix: Solid
Analysis Batch: 64401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1221		mg/Kg		122	70 - 130	6	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

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

Lab Sample ID: LCSD 880-64149/2-A
Matrix: Solid
Analysis Batch: 64401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1265		mg/Kg		126	70 - 130	2	35
Ethylbenzene			0.100	0.1240		mg/Kg		124	70 - 130	6	35
m,p-Xylenes			0.200	0.2406		mg/Kg		120	70 - 130	8	35
o-Xylene			0.100	0.1214		mg/Kg		121	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: MB 880-64197/5-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64197

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/09/23 09:34	10/10/23 01:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/09/23 09:34	10/10/23 01:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*10/09/23 09:34*	*10/10/23 01:45*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/09/23 09:34*	*10/10/23 01:45*	*1*

Lab Sample ID: LCS 880-64197/1-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64197

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08681		mg/Kg		87	70 - 130
Toluene			0.100	0.08481		mg/Kg		85	70 - 130
Ethylbenzene			0.100	0.07876		mg/Kg		79	70 - 130
m,p-Xylenes			0.200	0.1616		mg/Kg		81	70 - 130
o-Xylene			0.100	0.08910		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-64197/2-A
Matrix: Solid
Analysis Batch: 64194

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64197

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08459		mg/Kg		85	70 - 130	3	35
Toluene			0.100	0.08333		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.08601		mg/Kg		86	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

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

Lab Sample ID: LCSD 880-64197/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64194 — **Prep Batch: 64197**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1652		mg/Kg		83	70 - 130	2	35
o-Xylene			0.100	0.08903		mg/Kg		89	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

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

Lab Sample ID: MB 880-64312/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64318 — **Prep Batch: 64312**

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		10/09/23 17:24	10/10/23 09:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/09/23 17:24	10/10/23 09:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/09/23 17:24	10/10/23 09:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*189*	*S1+*	*70 - 130*	*10/09/23 17:24*	*10/10/23 09:17*	*1*
o-Terphenyl (Surr)	*176*	*S1+*	*70 - 130*	*10/09/23 17:24*	*10/10/23 09:17*	*1*

Lab Sample ID: LCS 880-64312/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64318 — **Prep Batch: 64312**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	916.1		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	879.0		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*126*		*70 - 130*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-64312/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64318 — **Prep Batch: 64312**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.5		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	807.7		mg/Kg		81	70 - 130	8	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

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

Lab Sample ID: LCSD 880-64312/3-A
Matrix: Solid
Analysis Batch: 64318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64312

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-64248/1-A
Matrix: Solid
Analysis Batch: 64552

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			10/12/23 13:33	1

Lab Sample ID: LCS 880-64248/2-A
Matrix: Solid
Analysis Batch: 64552

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-64248/3-A
Matrix: Solid
Analysis Batch: 64552

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	247.6		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

GC VOA

Prep Batch: 63929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63929/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 64149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-4	C-40 0-4.1'	Total/NA	Solid	5035	
880-34133-5	C-42 0-4.1'	Total/NA	Solid	5035	
MB 880-64149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 64194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	8021B	64197
880-34133-2	C-37 0-4.1'	Total/NA	Solid	8021B	64197
880-34133-3	C-38 0-4.1'	Total/NA	Solid	8021B	64197
MB 880-63929/5-A	Method Blank	Total/NA	Solid	8021B	63929
MB 880-64197/5-A	Method Blank	Total/NA	Solid	8021B	64197
LCS 880-64197/1-A	Lab Control Sample	Total/NA	Solid	8021B	64197
LCSD 880-64197/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64197

Prep Batch: 64197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	5035	
880-34133-2	C-37 0-4.1'	Total/NA	Solid	5035	
880-34133-3	C-38 0-4.1'	Total/NA	Solid	5035	
MB 880-64197/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-64197/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-64197/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 64401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-4	C-40 0-4.1'	Total/NA	Solid	8021B	64149
880-34133-5	C-42 0-4.1'	Total/NA	Solid	8021B	64149
MB 880-64149/5-A	Method Blank	Total/NA	Solid	8021B	64149
LCS 880-64149/1-A	Lab Control Sample	Total/NA	Solid	8021B	64149
LCSD 880-64149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	64149

Analysis Batch: 64421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	Total BTEX	
880-34133-2	C-37 0-4.1'	Total/NA	Solid	Total BTEX	
880-34133-3	C-38 0-4.1'	Total/NA	Solid	Total BTEX	
880-34133-4	C-40 0-4.1'	Total/NA	Solid	Total BTEX	
880-34133-5	C-42 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 64312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	8015NM Prep	
880-34133-2	C-37 0-4.1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

GC Semi VOA (Continued)

Prep Batch: 64312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-3	C-38 0-4.1'	Total/NA	Solid	8015NM Prep	
880-34133-4	C-40 0-4.1'	Total/NA	Solid	8015NM Prep	
880-34133-5	C-42 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-64312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-64312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-64312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 64318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	8015B NM	64312
880-34133-2	C-37 0-4.1'	Total/NA	Solid	8015B NM	64312
880-34133-3	C-38 0-4.1'	Total/NA	Solid	8015B NM	64312
880-34133-4	C-40 0-4.1'	Total/NA	Solid	8015B NM	64312
880-34133-5	C-42 0-4.1'	Total/NA	Solid	8015B NM	64312
MB 880-64312/1-A	Method Blank	Total/NA	Solid	8015B NM	64312
LCS 880-64312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64312
LCSD 880-64312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64312

Analysis Batch: 64456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Total/NA	Solid	8015 NM	
880-34133-2	C-37 0-4.1'	Total/NA	Solid	8015 NM	
880-34133-3	C-38 0-4.1'	Total/NA	Solid	8015 NM	
880-34133-4	C-40 0-4.1'	Total/NA	Solid	8015 NM	
880-34133-5	C-42 0-4.1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 64248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Soluble	Solid	DI Leach	
880-34133-2	C-37 0-4.1'	Soluble	Solid	DI Leach	
880-34133-3	C-38 0-4.1'	Soluble	Solid	DI Leach	
880-34133-4	C-40 0-4.1'	Soluble	Solid	DI Leach	
880-34133-5	C-42 0-4.1'	Soluble	Solid	DI Leach	
MB 880-64248/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-64248/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-64248/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 64552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-34133-1	C-36 0-4.1'	Soluble	Solid	300.0	64248
880-34133-2	C-37 0-4.1'	Soluble	Solid	300.0	64248
880-34133-3	C-38 0-4.1'	Soluble	Solid	300.0	64248
880-34133-4	C-40 0-4.1'	Soluble	Solid	300.0	64248
880-34133-5	C-42 0-4.1'	Soluble	Solid	300.0	64248
MB 880-64248/1-A	Method Blank	Soluble	Solid	300.0	64248
LCS 880-64248/2-A	Lab Control Sample	Soluble	Solid	300.0	64248
LCSD 880-64248/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	64248

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-36 0-4.1'

Lab Sample ID: 880-34133-1
Matrix: Solid
Date Collected: 10/05/23 11:40
Date Received: 10/09/23 08:23

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	64197	10/09/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64421	10/10/23 14:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			64456	10/10/23 15:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	64312	10/10/23 08:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64318	10/10/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64248	10/09/23 12:55	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64552	10/12/23 15:46	CH	EET MID

Client Sample ID: C-37 0-4.1'

Lab Sample ID: 880-34133-2
Matrix: Solid
Date Collected: 10/05/23 11:50
Date Received: 10/09/23 08:23

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	64197	10/09/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64421	10/10/23 14:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			64456	10/10/23 15:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	64312	10/10/23 08:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64318	10/10/23 15:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	64248	10/09/23 12:55	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64552	10/12/23 15:52	CH	EET MID

Client Sample ID: C-38 0-4.1'

Lab Sample ID: 880-34133-3
Matrix: Solid
Date Collected: 10/05/23 12:00
Date Received: 10/09/23 08:23

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	64197	10/09/23 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64194	10/10/23 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64421	10/10/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			64456	10/10/23 15:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	64312	10/10/23 08:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64318	10/10/23 15:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	64248	10/09/23 12:55	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64552	10/12/23 16:12	CH	EET MID

Client Sample ID: C-40 0-4.1'

Lab Sample ID: 880-34133-4
Matrix: Solid
Date Collected: 10/05/23 12:10
Date Received: 10/09/23 08:23

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	64149	10/09/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64401	10/11/23 15:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64421	10/11/23 15:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Client Sample ID: C-40 0-4.1'

Date Collected: 10/05/23 12:10
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-4

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			64456	10/10/23 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	64312	10/10/23 08:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64318	10/10/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	64248	10/09/23 12:55	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64552	10/12/23 16:19	CH	EET MID

Client Sample ID: C-42 0-4.1'

Date Collected: 10/05/23 12:40
Date Received: 10/09/23 08:23

Lab Sample ID: 880-34133-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	64149	10/09/23 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	64401	10/11/23 16:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			64421	10/11/23 16:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			64456	10/10/23 16:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	64312	10/10/23 08:39	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	64318	10/10/23 16:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	64248	10/09/23 12:55	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	64552	10/12/23 16:25	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: 880-34133-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-34133-1
Project/Site: Salado Draw Pad 415 SDG: 22-0104-07

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-34133-1
SDG: 22-0104-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-34133-1	C-36 0-4.1'	Solid	10/05/23 11:40	10/09/23 08:23
880-34133-2	C-37 0-4.1'	Solid	10/05/23 11:50	10/09/23 08:23
880-34133-3	C-38 0-4.1'	Solid	10/05/23 12:00	10/09/23 08:23
880-34133-4	C-40 0-4.1'	Solid	10/05/23 12:10	10/09/23 08:23
880-34133-5	C-42 0-4.1'	Solid	10/05/23 12:40	10/09/23 08:23

34133 No. 2770

CHAIN-OF-CUSTODY

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

DATE 10/9/23 PAGE 1 OF 1
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME SALADO DRAW POD 415
LAI PROJECT #. 22-0104-07 COLLECTOR STAN BUTLER
Data Reported to ROBERT NELSON / MARC LARSON

TRRP report? ☐ Yes ☒ No
TIME ZONE Time zone/State: MNT

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 ☐ | pH ☐ | HEXAVALENT CHROMIUM ☐ | CYANIDE ☐ | 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	TRPH	GRO	DRO	ORO	VOC	SVOC	8081	8082	TCLP Metals	TCLP VOC	TCLP Pest	TCLP Herb	Semi-VOC	Total Metals	Other	Lead	D W 200.8	TCLP	RCI	TOX	Flashpoint	TDS	TSS	% Moisture	pH	Hex Chrom	Cyanide	Explosives	Pechlorate	Chlorides	Anions	Alkalinity	FIELD NOTES
C-36 0-4.1'		10/5/23	11:40	S	1				X		X	X	X	X																													202
C-37 0-4.1'		10/5/23	11:50	S	1																																					
C-38 0-4.1'		10/5/23	12:06	S	1																																					
C-40 0-4.1'		10/5/23	12:10	S	1																																					
C-42 0-4.1'		10/5/23	12:40	S	1																																					
TOTAL																																										

880-34133 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 10/9/23 0823	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 -5/-3 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-34133-1
SDG Number: 22-0104-07

Login Number: 34133
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/20/2023 10:12:48 AM Revision 1

JOB DESCRIPTION

Salado Draw Pad 415
22-0104-07

JOB NUMBER

880-35343-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
11/20/2023 10:12:48 AM
Revision 1

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

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Laboratory Job ID: 880-35343-1
SDG: 22-0104-07

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Job ID: 880-35343-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35343-1

Revision
The report being provided is a revision of the original report sent on 11/13/2023. The report (revision 1) is being revised to include results for BTEX and TPH per Daniel St Germain (phone).

Receipt
The samples were received on 11/6/2023 11:22 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 2.5º C.

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

Job ID: 880-35343-2

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35343-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/6/2023 11:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66753 and 880-66881 and analytical batch 880-66913 was outside the upper control limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BF-1 (880-35343-1), BF-2 (880-35343-2), (880-35343-A-1-G MS) and (880-35343-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-67028 and analytical batch 880-67152. The associated laboratory control sample (LCS) met acceptance criteria.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Client Sample ID: BF-1

Date Collected: 11/01/23 15:25
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-1

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		11/10/23 16:35	11/15/23 04:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/23 16:35	11/15/23 04:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/23 16:35	11/15/23 04:17	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/10/23 16:35	11/15/23 04:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/23 16:35	11/15/23 04:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/10/23 16:35	11/15/23 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:17*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/15/23 04:17	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			11/16/23 10:15	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 F1	50.0		mg/Kg		11/15/23 09:52	11/16/23 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		11/15/23 09:52	11/16/23 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/15/23 09:52	11/16/23 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*4*	*S1-*	*70 - 130*	*11/15/23 09:52*	*11/16/23 10:15*	*1*
o-Terphenyl (Surr)	*0.3*	*S1-*	*70 - 130*	*11/15/23 09:52*	*11/16/23 10:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			11/13/23 11:45	1

Client Sample ID: BF-2

Date Collected: 11/01/23 15:30
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-2

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		11/10/23 16:35	11/15/23 04:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 04:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 04:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 04:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 04:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:38*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Client Sample ID: BF-2

Date Collected: 11/01/23 15:30
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-2

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			11/15/23 04:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/16/23 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/15/23 09:52	11/16/23 11:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/15/23 09:52	11/16/23 11:26	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/15/23 09:52	11/16/23 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*21*	*S1-*	*70 - 130*	*11/15/23 09:52*	*11/16/23 11:26*	*1*
o-Terphenyl (Surr)	*5*	*S1-*	*70 - 130*	*11/15/23 09:52*	*11/16/23 11:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/11/23 20:13	1

Client Sample ID: BF-3

Date Collected: 11/01/23 15:35
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-3

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		11/10/23 16:35	11/15/23 04:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 04:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 04:58	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 04:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 04:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:58*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/10/23 16:35*	*11/15/23 04:58*	*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			11/15/23 04:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/16/23 11:48	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		11/15/23 09:52	11/16/23 11:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/15/23 09:52	11/16/23 11:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Client Sample ID: BF-3

Date Collected: 11/01/23 15:35
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/15/23 09:52	11/16/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*11/15/23 09:52*	*11/16/23 11:48*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*11/15/23 09:52*	*11/16/23 11:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			11/11/23 20:19	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

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)
880-35343-1	BF-1	96	106
880-35343-2	BF-2	102	110
880-35343-3	BF-3	112	114
LCS 880-66753/1-A	Lab Control Sample	115	105
LCSD 880-66753/2-A	Lab Control Sample Dup	112	104
MB 880-66753/5-A	Method Blank	111	131 S1+
MB 880-66881/5-A	Method Blank	112	135 S1+

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)
880-35343-1	BF-1	4 S1-	0.3 S1-
880-35343-1 MS	BF-1	2 S1-	0.2 S1-
880-35343-1 MSD	BF-1	2 S1-	0.2 S1-
880-35343-2	BF-2	21 S1-	5 S1-
880-35343-3	BF-3	114	122
LCS 880-67028/2-A	Lab Control Sample	97	112
LCSD 880-67028/3-A	Lab Control Sample Dup	92	105
MB 880-67028/1-A	Method Blank	109	124

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66753/5-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66753

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 16:35	11/14/23 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/10/23 16:35*	*11/14/23 22:53*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*11/10/23 16:35*	*11/14/23 22:53*	*1*

Lab Sample ID: LCS 880-66753/1-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66753

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1138		mg/Kg		114	70 - 130		
Toluene			0.100	0.09427		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09951		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.2194		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-66753/2-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66753

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1126		mg/Kg		113	70 - 130	1	35
Toluene			0.100	0.09444		mg/Kg		94	70 - 130	0	35
Ethylbenzene			0.100	0.09635		mg/Kg		96	70 - 130	3	35
m,p-Xylenes			0.200	0.2182		mg/Kg		109	70 - 130	1	35
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-66881/5-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66881

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

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

Lab Sample ID: MB 880-66881/5-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66881

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/13/23 16:38*	*11/14/23 11:12*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*11/13/23 16:38*	*11/14/23 11:12*	*1*

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

Lab Sample ID: MB 880-67028/1-A
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67028

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		11/15/23 09:52	11/16/23 07:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/15/23 09:52	11/16/23 07:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/15/23 09:52	11/16/23 07:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*11/15/23 09:52*	*11/16/23 07:31*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*11/15/23 09:52*	*11/16/23 07:31*	*1*

Lab Sample ID: LCS 880-67028/2-A
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1059		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	924.3		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-67028/3-A
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1090		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	952.9		mg/Kg		95	70 - 130	3	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

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

Lab Sample ID: LCSD 880-67028/3-A
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67028

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-35343-1 MS
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 67028

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 F1	1010	<50.5	U F1	mg/Kg		2	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	<50.5	U F1	mg/Kg		0.3	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*2*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*0.2*	*S1-*	*70 - 130*

Lab Sample ID: 880-35343-1 MSD
Matrix: Solid
Analysis Batch: 67152

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 67028

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 F1	1010	<50.5	U F1	mg/Kg		2	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	<50.5	U F1	mg/Kg		-0.2	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*2*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*0.2*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66460/1-A
Matrix: Solid
Analysis Batch: 66746

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			11/11/23 19:39	1

Lab Sample ID: LCS 880-66460/2-A
Matrix: Solid
Analysis Batch: 66746

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.9		mg/Kg		105	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-66460/3-A
Matrix: Solid
Analysis Batch: 66746

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	261.6		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

GC VOA

Prep Batch: 66753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	5035	
880-35343-2	BF-2	Total/NA	Solid	5035	
880-35343-3	BF-3	Total/NA	Solid	5035	
MB 880-66753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 66881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66881/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	8021B	66753
880-35343-2	BF-2	Total/NA	Solid	8021B	66753
880-35343-3	BF-3	Total/NA	Solid	8021B	66753
MB 880-66753/5-A	Method Blank	Total/NA	Solid	8021B	66753
MB 880-66881/5-A	Method Blank	Total/NA	Solid	8021B	66881
LCS 880-66753/1-A	Lab Control Sample	Total/NA	Solid	8021B	66753
LCSD 880-66753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66753

Analysis Batch: 67121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	Total BTEX	
880-35343-2	BF-2	Total/NA	Solid	Total BTEX	
880-35343-3	BF-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	8015NM Prep	
880-35343-2	BF-2	Total/NA	Solid	8015NM Prep	
880-35343-3	BF-3	Total/NA	Solid	8015NM Prep	
MB 880-67028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35343-1 MS	BF-1	Total/NA	Solid	8015NM Prep	
880-35343-1 MSD	BF-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	8015B NM	67028
880-35343-2	BF-2	Total/NA	Solid	8015B NM	67028
880-35343-3	BF-3	Total/NA	Solid	8015B NM	67028
MB 880-67028/1-A	Method Blank	Total/NA	Solid	8015B NM	67028
LCS 880-67028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67028
LCSD 880-67028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67028
880-35343-1 MS	BF-1	Total/NA	Solid	8015B NM	67028
880-35343-1 MSD	BF-1	Total/NA	Solid	8015B NM	67028

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

GC Semi VOA

Analysis Batch: 67307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Total/NA	Solid	8015 NM	
880-35343-2	BF-2	Total/NA	Solid	8015 NM	
880-35343-3	BF-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Soluble	Solid	DI Leach	
880-35343-2	BF-2	Soluble	Solid	DI Leach	
880-35343-3	BF-3	Soluble	Solid	DI Leach	
MB 880-66460/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66460/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66460/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 66746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35343-1	BF-1	Soluble	Solid	300.0	66460
880-35343-2	BF-2	Soluble	Solid	300.0	66460
880-35343-3	BF-3	Soluble	Solid	300.0	66460
MB 880-66460/1-A	Method Blank	Soluble	Solid	300.0	66460
LCS 880-66460/2-A	Lab Control Sample	Soluble	Solid	300.0	66460
LCSD 880-66460/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66460

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Client Sample ID: BF-1

Date Collected: 11/01/23 15:25
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 04:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67121	11/15/23 04:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			67307	11/16/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 10:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	66460	11/07/23 18:56	SMC	EET MID
Soluble	Analysis	300.0		1			66746	11/13/23 11:45	CH	EET MID

Client Sample ID: BF-2

Date Collected: 11/01/23 15:30
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-2
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			5.03 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 04:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67121	11/15/23 04:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			67307	11/16/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 11:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	66460	11/07/23 18:56	SMC	EET MID
Soluble	Analysis	300.0		1			66746	11/11/23 20:13	CH	EET MID

Client Sample ID: BF-3

Date Collected: 11/01/23 15:35
Date Received: 11/06/23 11:22

Lab Sample ID: 880-35343-3
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			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 04:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67121	11/15/23 04:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			67307	11/16/23 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 11:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66460	11/07/23 18:56	SMC	EET MID
Soluble	Analysis	300.0		1			66746	11/11/23 20:19	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw Pad 415

Job ID: 880-35343-1
SDG: 22-0104-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35343-1	BF-1	Solid	11/01/23 15:25	11/06/23 11:22
880-35343-2	BF-2	Solid	11/01/23 15:30	11/06/23 11:22
880-35343-3	BF-3	Solid	11/01/23 15:35	11/06/23 11:22

35343

No. 3204

CHAIN-OF-CUSTODY

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

DATE _____ PAGE ____ OF ____

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SALADO DRAW PAD 415

LAI PROJECT # 22-0104-07 COLLECTOR STAN BATES

Data Reported to ROBERT NELSON / MIKE LARSON

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT / NEW

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
BF-1		11/1/23	3:25	S					X			
BF-2		11/1/23	3:30	S					X			
BF-3		11/1/23	3:35	S					X			

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 ☐

TOTAL 3

RELINQUISHED BY (Signature) DATE/TIME 11/6/23 1122 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 2.3/2.5 THERM# IR5
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

880-35343 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-35343-1
SDG Number: 22-0104-07

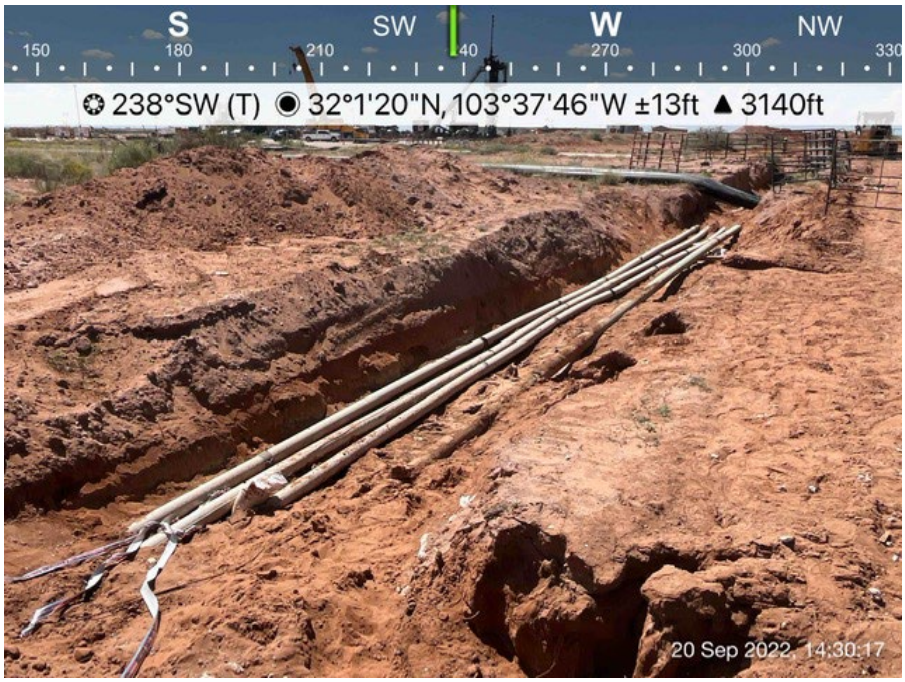
Login Number: 35343
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Appendix E

Photographic Documentation



Impacted are in gasline trench, viewing to the southwest.

Impacted area in the pasture, viewing to the east.

Impacted area in the pasture, viewing to the west.

Impacted area in gasline trench, viewing to the west.

Impacted area in gasline trench, viewing to the southeast.

Impacted area in pasture, near gas riser, viewing to the west.

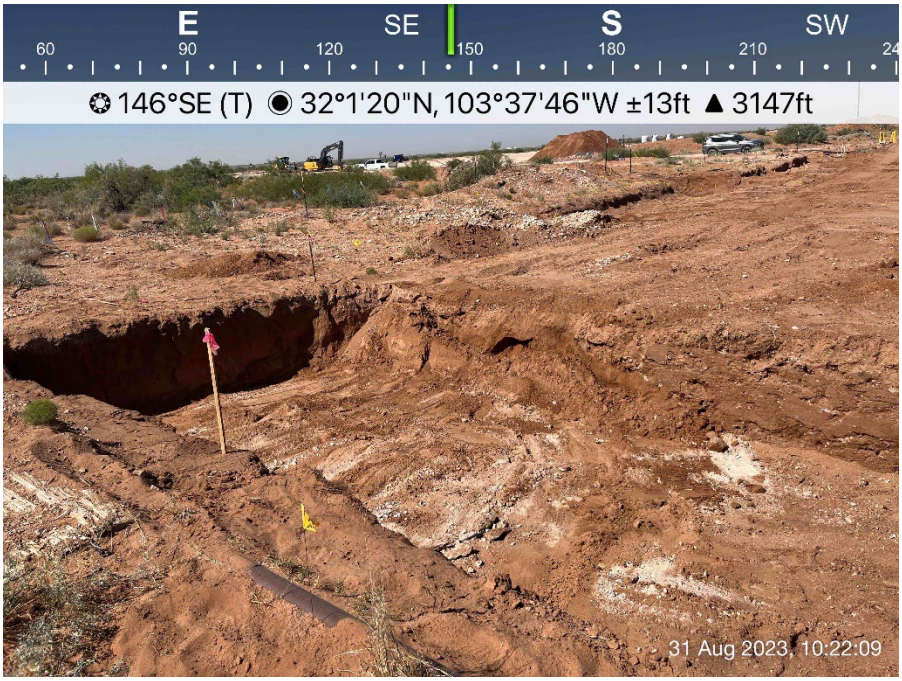
Impacted area in the pasture, viewing to the southwest.

Impacted area in gasline trench, viewing to the east.

Impacted area in pasture, near the lease road, viewing to the southeast.

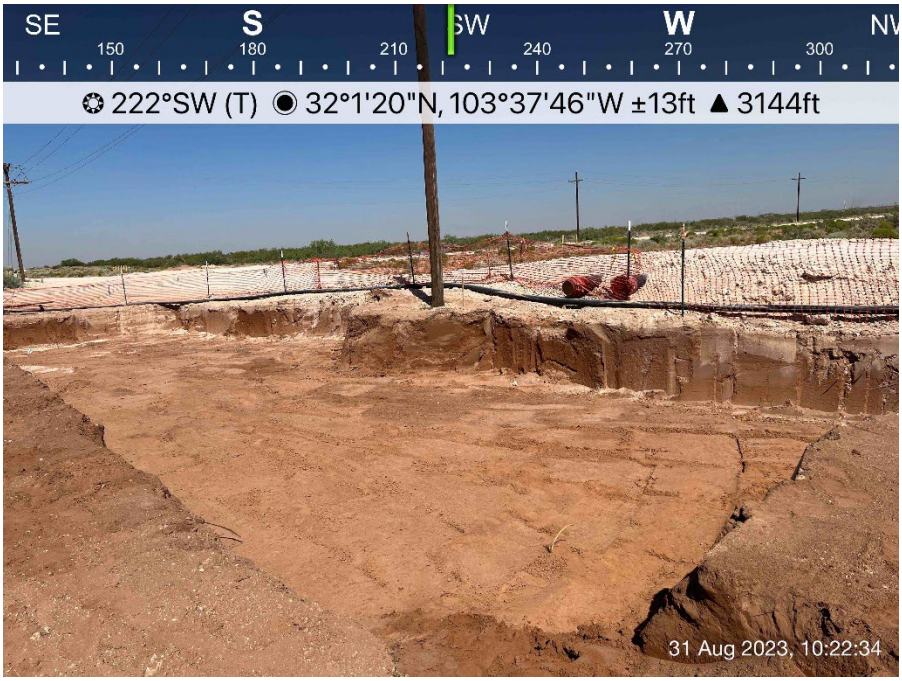
Excavated area in the pasture, viewing to the south.

Excavated area in the pasture, viewing to the southeast.

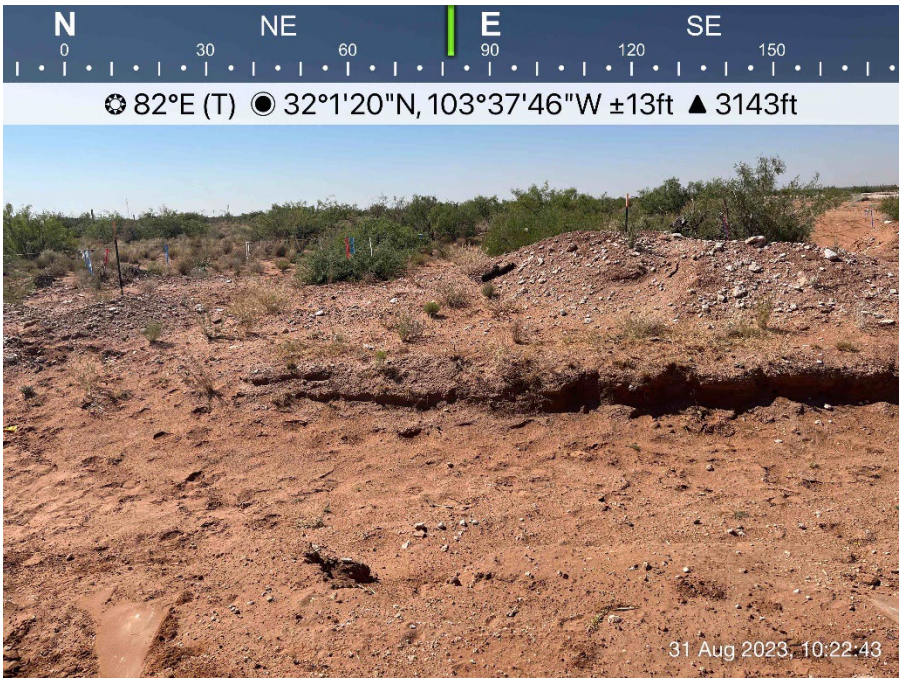


Excavated area in the pasture, viewing to the southeast.

Excavated area in the pasture, viewing to the south.



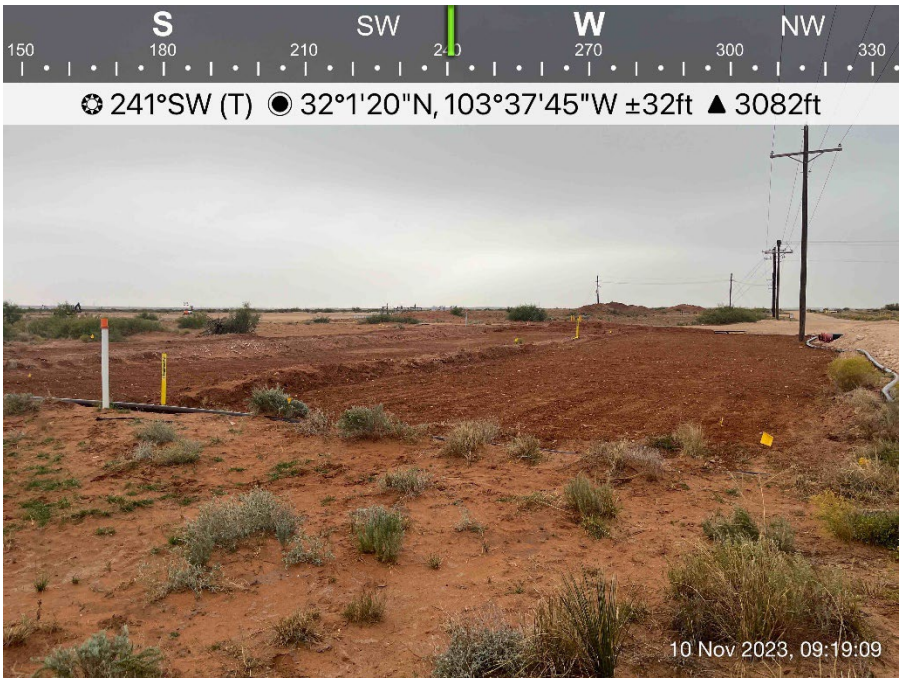
Excavated areas in the pasture, near the lease road, viewing to the southwest.



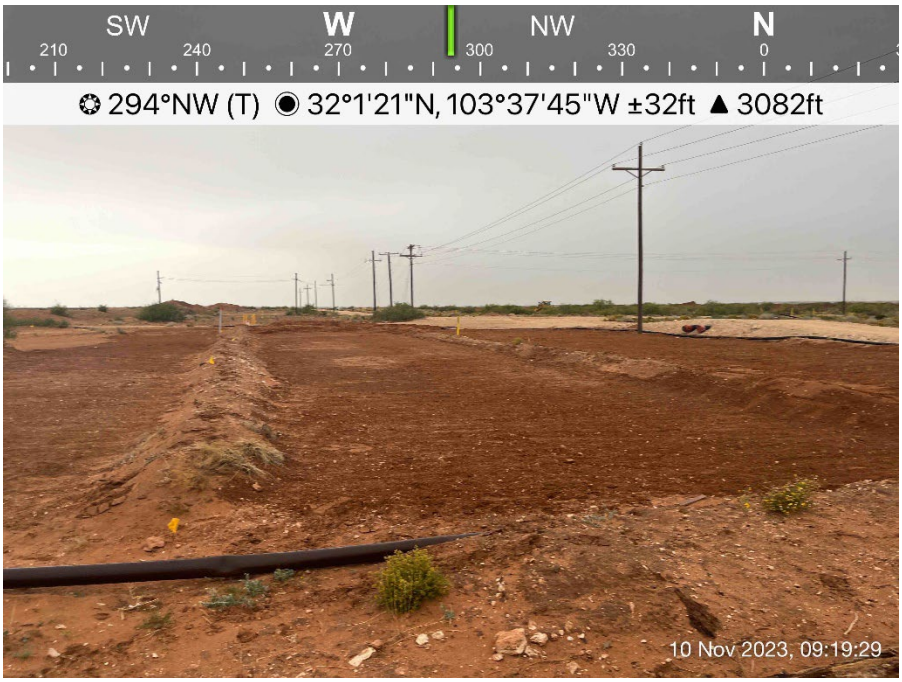
Excavated area in the pasture, viewing to the east.

Excavated area in the pasture, with exposed gas lines, viewing to the south.

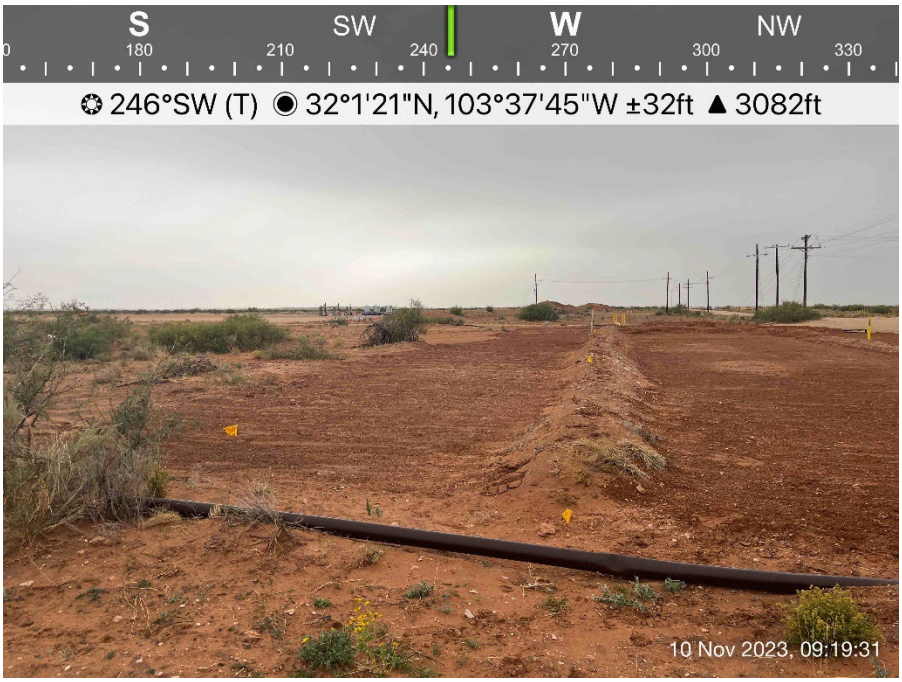
Excavated area in the pasture, near the lease road, viewing to the south.



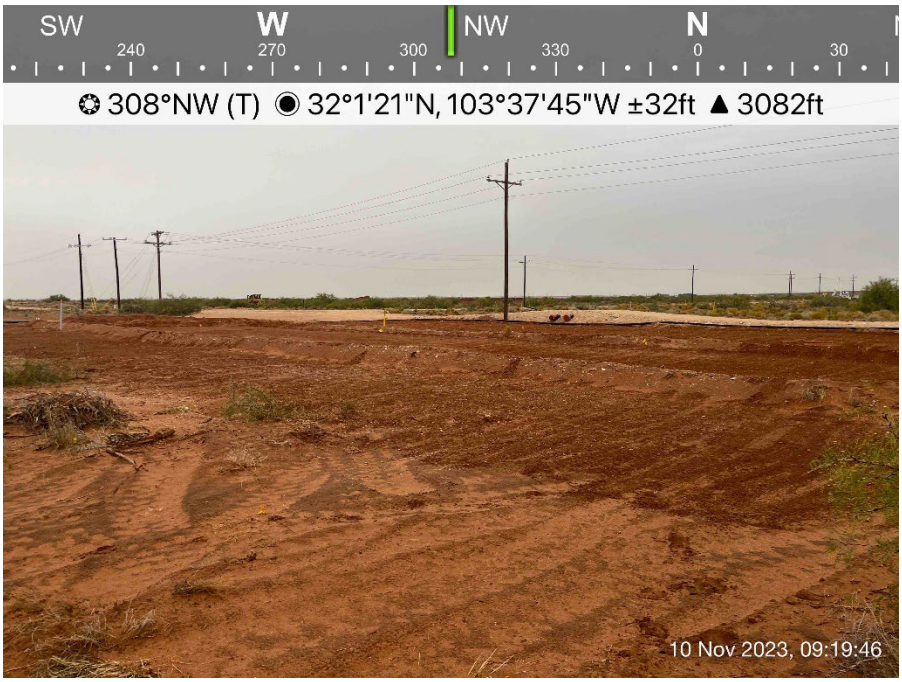
Backfilled and seeded excavation, viewing to the southwest.



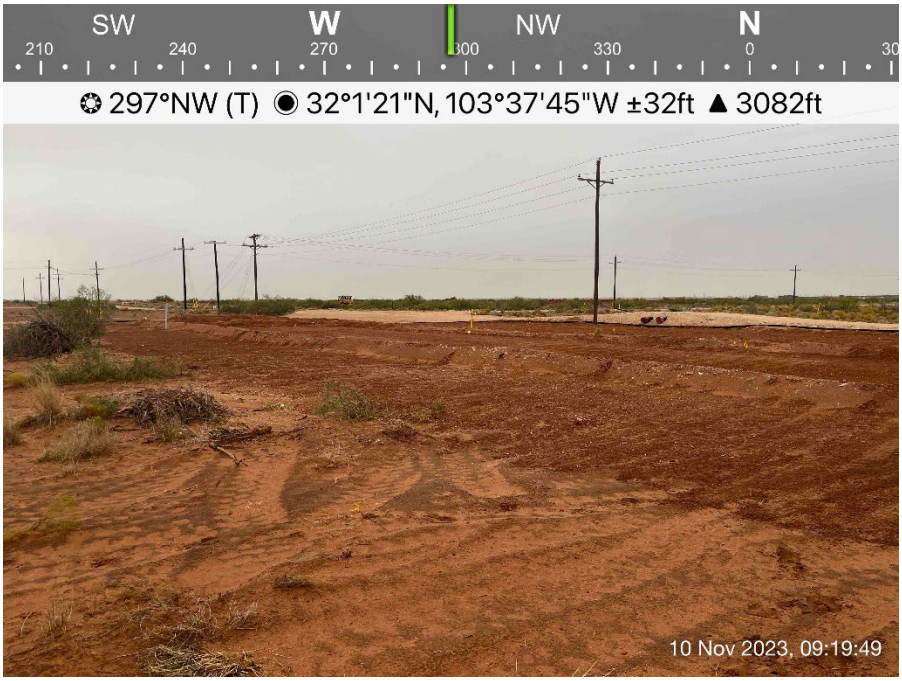
Backfilled and seeded excavation, viewing to the northwest.



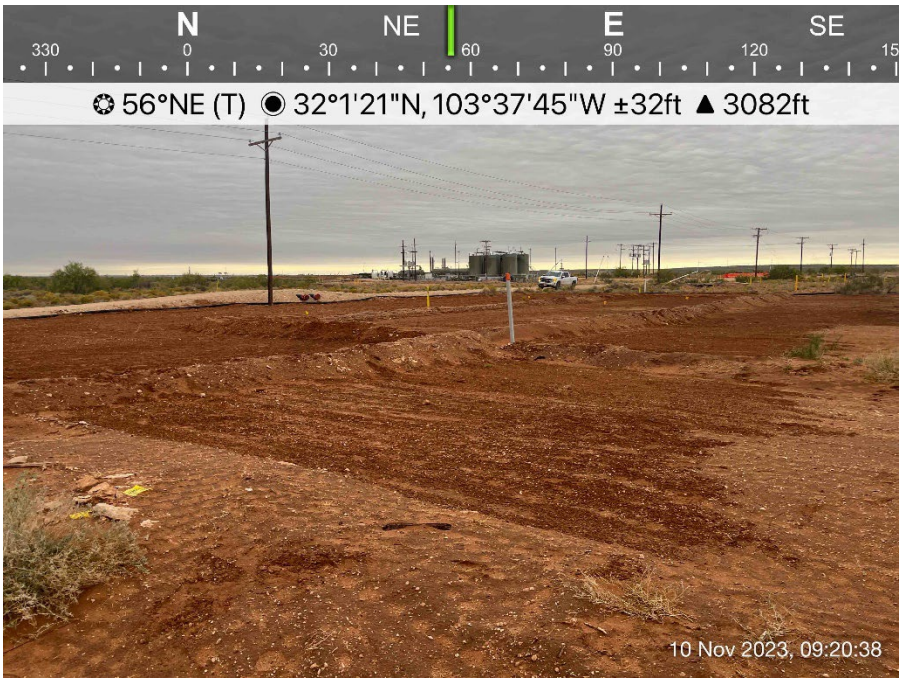
Backfilled and seeded excavation, viewing to the southwest.



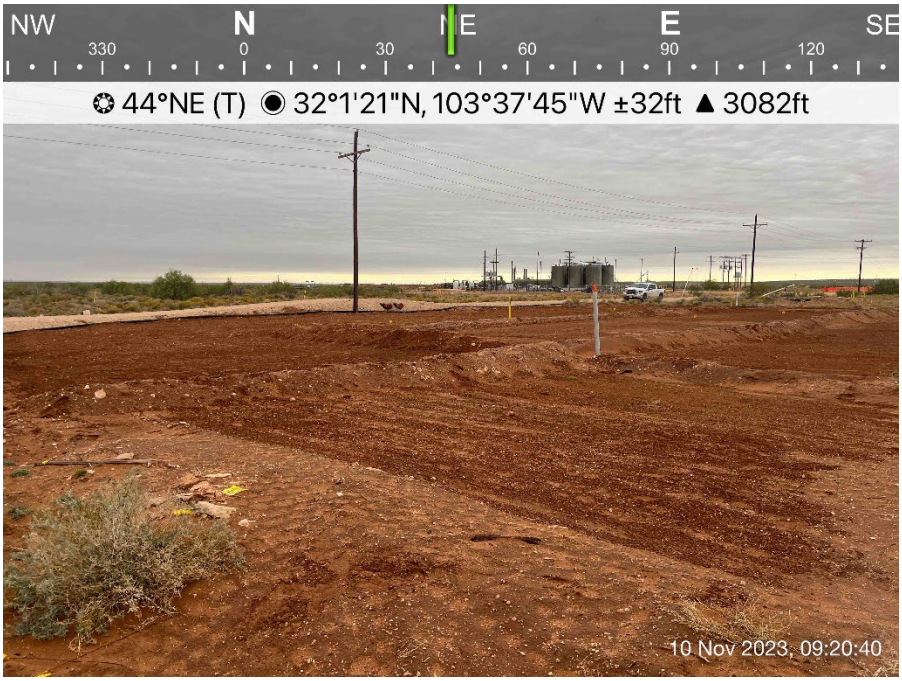
Backfilled and seeded excavation, viewing to the northwest.



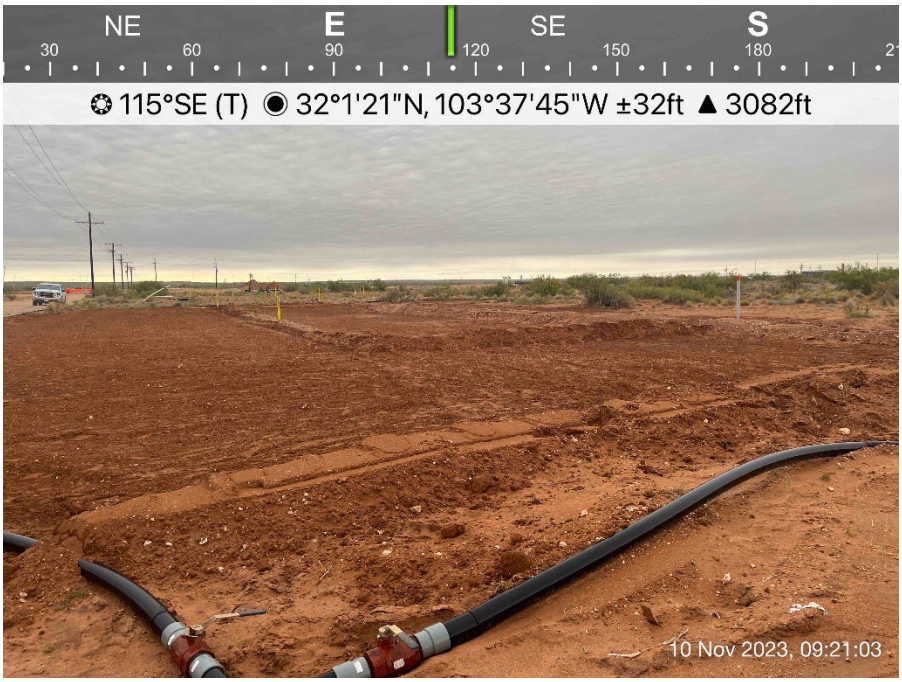
Backfilled and seeded excavation, viewing to the northwest.



Backfilled and seeded excavation, viewing to the northeast.



Backfilled and seeded excavation, viewing to the northeast.



Backfilled and seeded excavation, viewing to the southeast.

Bacfilled and seeded excavation, viewing the east.

From: Robert Nelson
To: Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD
Cc: Halie Butler; Timsan Bricker; Mark Larson
Subject: Salado Draw Pad 415 (nAPP2225935775) Excavation Backfill Notification
Date: Wednesday, October 18, 2023 3:20:55 PM
Attachments: image001.png
Table 2 Confirmation Soil Sample Analytical Data Summary -SD Pad 15.pdf
Figure 4 - Aerial Map Showing Excavation Area and Confirmation Samples Extended SW.pdf

---

Hello Mr. Hamlet and Mr. Velez,

Larson & Associates, Inc. (LAI), on behalf of Select Water, submits the attached confirmation (post remediation) laboratory analytical data and sample location map to the New Mexico Oil Conservation Division (OCD) District I to provide two (2) business days notification prior to backfilling the excavation at the Salado Draw Pad 415 (nAPP2225935775) in Lea County, New Mexico. A deferral for sidewall sample C-39 has been requested based on proximity to electrical pole/lease road. Please feel free to contact Halie Butler with Select at hbutler@selectwater.com, Mark Larson (432) 687-0901 or mark@laenvironmental.com, or me with any questions or concerns.

Thank you,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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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

QUESTIONS

Action 316787

QUESTIONS

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2225935775**
Incident Name	**NAPP2225935775 SALADO DRAW PAD 415 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SALADO DRAW PAD 415
Date Release Discovered	09/02/2022
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Human Error | Pit (Specify) | Produced Water | Released: 847 BBL | Recovered: 125 BBL | Lost: 722 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/22/2024

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	37400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50
GRO+DRO (EPA SW-846 Method 8015M)	50
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/20/2023
On what date will (or did) the final sampling or liner inspection occur	10/03/2023
On what date will (or was) the remediation complete(d)	10/05/2023
What is the estimated surface area (in square feet) that will be reclaimed	5035
What is the estimated volume (in cubic yards) that will be reclaimed	939
What is the estimated surface area (in square feet) that will be remediated	5035
What is the estimated volume (in cubic yards) that will be remediated	939
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	*Not answered.*
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	Milestone Orla
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/22/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Select requests a deferral for the area near sample location C-39, due to its proximity to a high traffic lease road.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	7.5
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-025-49075 SD 24 13 FEDERAL P415 #016H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/22/2024

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**316779**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/03/2023**
What was the (estimated) number of samples that were to be gathered	**45**
What was the sampling surface area in square feet	**9000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5035
What was the total volume (cubic yards) remediated	939
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5035
What was the total volume (in cubic yards) reclaimed	939
Summarize any additional remediation activities not included by answers (above)	N/A

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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/22/2024

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 316787

CONDITIONS

Operator:	OGRID:
SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	289068
	Action Number: 316787
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	4/18/2024