Incident ID: nAPP2109651124
REMEDIATION AND CLOSURE REPORT
Salado Draw 13 SWD
Produced Water Release
Lea County, New Mexico

Latitude: 32.03556
Longitude: -103.63799

LAI Project No. 21-0100-20

February 7, 2024

Prepared for:
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Contents

Tables

Figures

Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this remediation and closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a produced water release at the Salado Draw 13 SWD (Site) located in Unit P, Section 14, Township 26 South, Range 32 East in Lea County, New Mexico. The geodetic position is North 32.03556 and West -103.63799. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on March 25, 2021, due to a pinhole leak in a ball valve, causing approximately 6.44 barrels (bbls) of produced water to be released over an area of 2,597 square feet on federally owned land (BLM). Chevron recovered 5.5 bbls of the released fluid. The release occurred entirely on the production pad and no off-site areas were affected. The initial C-141 was submitted to the NMOCD on April 6, 2021. The release was assigned incident number nAPP2109651124. Appendix A presents the initial C-141 and spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,170 feet above mean sea level (msl).
- Surface topography slopes gently towards the southeast.
- Soils are designated Pyote and Maljamar fine sands, where the Pyote setting consists of 0 to 30 inches of fine sand underlain by 30 to 60 inches of fine sandy loam, and where the Maljamar setting consists of 0 to 24 inches of fine sand underlain by 24 to 50 inches of sandy clay loam and 50 to 60 inches of cemented material (caliche).
- The geology is described as Holocene to middle Pleistocene aged eolian and piedmont deposits consisting interlayered eolian sands and piedmont-slope deposits.
- Groundwater is greater 101.5 feet below ground surface (bgs), based on a dry groundwater bore (SB-1) drilled on April 14, 2020.
- The minimum distance between the release and the following areas is as follows:
    - Continuously flowing watercourse: twenty-two (22) miles to the west.
    - Lakebed, sinkhole, or playa lake: 1.1 miles southeast.
    - Occupied residence: 2.75 miles to the southwest.
    - Privately owned domestic freshwater well: 2.7 miles to the southwest.
    - Municipal boundary: Jal, New Mexico, twenty-five (25) miles to the northeast.
    - Wetland: 1.1 miles southeast.
    - Subsurface mine: twenty-six (26) miles to the northwest.
    - There are no known unstable (non-karst) areas within a 5-mile radius.
- The site is not located in a 100-year flood plain.
- USGS karst occurrence potential data designates the area as medium risk.
- The spill was contained entirely on the production pad, and no off-site areas were impacted.
- Neither surface water nor groundwater was impacted by the release.

Figure 3 presents an aerial map with the groundwater bore location. Appendix B presents the karst risk potential map. Appendix C presents the boring log.

1.3 Remediation Levels

The following remediation standards are based on closure criteria for groundwater greater than one hundred feet bgs for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 20,000 mg/Kg

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

2.0 DELINEATION

The release was delineated between May 20, 2021, and November 11, 2021. A delineation report and remediation plan titled, *Delineation Report and Remediation Plan, Salado Draw 13 SWD, Produced Water Release*, *Lea County, New Mexico*, was received and approved by the NMOCD on June 7, 2022.

The remediation plan proposed the following remedial actions:

- Excavate soil from an area measuring approximately 2,144 square feet encompassing S-2, S-5, S-S-8, S-6, S-7, and S-10 to a depth of two feet bgs.
- Excavate soil from an area measuring approximately 1,194 square feet encompassing S-1, S-3, and S-4 to a depth of 4.1 feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.
- Backfill excavation with clean caliche assuming achievement of NMOCD remediation levels.
- Prepare report with photographs for submittal to NMOCD District I.

Table 1 presents the delineation soil sample analytical data summary. Figure 4 presents an aerial map with the proposed excavation areas. Appendix D presents NMOCD communications.

3.0 REMEDIATION

Between May 24, 2023, and December 18, 2023, SDR Enterprises (SDR) and Warrior Technologies, LLC (Warrior), under the guidance of LAI, excavated 323 cubic yards of impacted soil from an area of about 2,241 square feet using mechanical and hydro excavation methods. Mechanically excavated soil was temporally stored on a polyethylene liner near the excavation and the hydro excavated material was stored in vacuum boxes. All excavated material was disposed of at the Milestone Orla Facility near Orla, Texas.

LAI personnel collected a total of twenty-six (26) confirmation soil samples, including seventeen (17) initial confirmation samples and nine (9) final confirmation samples where addition excavation occurred due to chloride values exceeding NMOCD closure criteria. Each initial confirmation sample represents an area of 200 square feet or less. All samples were delivered under chain-of- custody and preservation to Eurofins-Xenco (Xenco) in Midland, Texas. Xenco analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA SW-846 Method 8021B; total petroleum hydrocarbons (TPH),

including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (MRO) by EPA SW-846 Method 8015M; and chloride by EPA Method 300.

3.1 Remediation Activities

On May 24, 2023, LAI personnel collected seventeen initial composite confirmation soil samples (C-1 through C-17) from the bottom and sidewalls of the excavation. Xenco reported that all samples were below closure criteria and analytical reporting limit (RL) for benzene, BTEX, and TPH. Chloride was reported above closure criteria C-6 (693 mg/Kg), C-7 (1,190 mg/Kg), C-8 (827 mg/Kg), C-9 (2,380 mg/Kg), C-11 (688 mg/Kg), C-15 (1,570 mg/Kg), C-17 (1,280 mg/Kg).

On June 14, 2023, LAI personnel collected two initial composite confirmation soil samples (C-18 and C-19) from the bottom and sidewall of the excavation. Xenco reported that the samples below were below closure criteria and analytical RL for benzene, BTEX, and TPH. Chloride was reported above closure criteria in sample C-19 (2,160 mg/Kg).

On December 18 and 19, 2023, LAI personnel collected seven samples from areas where additional excavation was performed due to chloride being reported closure criteria. The resampled areas included C-6, C-7, C-8a, C-11, C-15a, C-17a, and C-19a. Xenco reported that all samples were below closure criteria for benzene, BTEX, TPH, and chloride. Notification of the sampling event was submitted to and approved on December 12, 2023.

Laboratory analysis demonstrates that that benzene, BTEX, TPH, and chloride are below NMOCD closure standards listed in Table 1 of 19.15.29 NMAC in all confirmation samples, apart from sample locations (C-8, C-9, C-15, C-17, and C-19) where a deferral is requested. Figure 5 presents the excavation areas and confirmation soil sample location map. Table 2 presents the confirmation sample analytical summary. Appendix D presents NMOCD communications. Appendix E presents the laboratory reports.

3.2 Backfill

On May 5, 2023, LAI personnel collected two (2) composite soil samples (BF-1 and BF-3) of backfill material from a borrow pit located in Unit K (NE/4, SW/4), Section 21, Township 26 South, Range 32 East, in Lea County, New Mexico. Xenco analyzed the samples for BTEX, TPH and chloride, and reported that all parameters were below NMOCD requirements outlined in NMAC 19.25.29.13D(1). Benzene, BTEX and TPH were below analytical reporting limits. Chloride was reported at 61.5 mg/Kg and 82.6 mg/Kg in samples BF-1 and BF-3, respectively.

On January 17 and 18, 2024, the excavation was backfilled with about 323 cubic yards of caliche and topsoil from the borrow pit. The pad was graded and compacted to surface conditions prior to the remediation. Table 2 presents the laboratory analytical data summary. Appendix E presents the laboratory reports. Appendix F presents photographic documentation of the backfilled excavation.

4.0 DERFERAL REQUEST

Chevron requests a deferral for a 756 square foot area bounded by sample locations C-8, C-9, C-15, C-17, and C-19. The total volume of soil within the deferral area is approximately 114.8 cubic yards. The sample locations are in close proximity to flowlines, electrical lines, concrete support structures, production and automation equipment, and lined containments. Remediation of these areas would require major facility deconstruction and do not pose an imminent risk to human health or the environment. Figure 6 presents an aerial image with the deferral area.

Tables

Table 1
Soil Sample Analytical Data Summary
SD 13 SWD
Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0.5	5/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**3,750**
	1	5/20/2021	In-Situ	0.00252	<0.00401	<49.8	<49.8	<49.8	<49.8	**11,300**
	1	11/11/2021	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**2,680**
	3	11/11/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**1,370**
	5	11/11/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	**1,190**
	10	11/11/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	449
S-2	0.5	5/20/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**3,830**
	1	5/20/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**1,330**
	1	11/11/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	**949**
	3	11/11/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	37.3
	5	11/11/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	12.7
	10	11/11/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	114
S-3	0.5	5/20/2021	In-Situ	<0.00200	<0.00400	<49.9	72.7	<49.9	72.7	**4,540**
	1	5/20/2021	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	**1,030**
	1	11/11/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,040**
	3	11/11/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**1,240**
	5	11/11/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**752**
	10	11/11/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**612**
	15	5/10/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	90.2
	20	5/10/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	74.2
S-4	0.5	5/20/2021	In-Situ	<0.00199	<0.00398	<50.0	59.6	<50.0	59.6	**2,110**
	1	5/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**3,220**

Table 1
Soil Sample Analytical Data Summary
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Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	1	11/11/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**785**
	3	11/11/2021	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**633**
	5	11/11/2021	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**784**
	10	11/11/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	53.0
S-5	0.5	5/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**8,660**
	1	11/11/2021	In-Situ	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	**855**
	3	11/11/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	213
	5	11/11/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	588
	10	11/11/2021	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<5.01
S-6	0.5	5/20/2021	In-Situ	<0.00199	<0.00398	<50.0	54.2	<50.0	54.2	**5,550**
	1	5/20/2021	In-Situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	**5,460**
	1	11/12/2021	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	68.7
	3	11/12/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	2.44
	5	11/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	237
	10	11/12/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	114
S-7	0.5	5/20/2021	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**7,060**
	1	11/12/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**723**
	3	11/12/2021	In-Situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	108
	5	11/12/2021	In-Situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	113
	10	11/12/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	41.6
S-8	0.5	5/20/2021	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**4,930**

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Soil Sample Analytical Data Summary
SD 13 SWD
Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**
	1	5/20/2021	In-Situ	<0.00200	<0.00401	<49.9	59.3	<49.9	59.3	**1,650**
	1	11/12/2021	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	587
	3	11/12/2021	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	350
	5	11/12/2021	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	455
	10	11/12/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	79.8
S-9	0.5	5/20/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	39.0
	1	5/20/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	25.2
S-10	0.5	5/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**6,230**
	1	5/20/2021	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**2,630**
	1	11/11/2021	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**948**
	3	11/11/2021	In-Situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	225
	5	11/11/2021	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	28.7
	10	11/11/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	19.2
S-11	0.5	5/20/2021	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11.6
	1	5/20/2021	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	21.2
S-12	0.5	5/20/2021	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	209
	1	5/20/2021	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	292
S-13	0.5	11/12/2021	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	7.24
	1	11/12/2021	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	12.4

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SD 13 SWD
Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100/2,500**	**600/20,000**

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

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron - Salado Draw 13 SWD
Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Sample ID	Position	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***				***100/2,500***	***600/20,000***
C-1	Bottom	2	05/24/2023	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	83.4
C-2	Bottom	2	05/24/2023	In-situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	326
C-3	Bottom	2	05/24/2023	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	270
C-4	Bottom	2	05/24/2023	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	524
C-5	Bottom	2	05/24/2023	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	455
C-6	Bottom	2	05/24/2023	Excavated	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**693**
		4.1	12/18/2023	In-situ	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	208
C-7	Bottom	2	05/24/2023	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,190**
		4.1	12/18/2023	In-situ	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	412
C-8	Sidewall	0 - 2	05/24/2023	Excavated	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	**827**
C-8a	Sidewall	0 - 4.1	12/18/2023	In-situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	82.4
C-9	Sidewall	0 - 2	05/24/2023	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**2,380**
C-10	Sidewall	0 - 2	05/24/2023	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	422
C-11	Bottom	3	05/24/2023	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**688**
		4.1	12/18/2023	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	125
C-12	Bottom	4.1	05/24/2023	In-situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	451
C-13	Bottom	4.1	05/24/2023	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	171
C-14	Sidewall	0 - 3	05/24/2023	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	520
C-15	Sidewall	0 - 3	05/24/2023	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,570**
C-15a	Sidewall	0 - 3	12/18/2023	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	172
C-16	Bottom	4.1	05/24/2023	In-situ	<0.00202	<0.00402	<50.0	<50.0	<50.0	<50.0	1,050
C-17	Sidewall	0 - 4.1	05/24/2023	Excavated	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**1,280**
C-17a	Sidewall	0 - 4.1	12/18/2023	In-situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	143
C-18	Bottom	2	06/14/2023	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	105
C-19	Sidewall	0 - 2	06/14/2023	Excavated	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**2,160**
C-19a	Sidewall	0 - 2	12/19/2023	In-situ	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	93.1
BackFill Samples											
BF-1	--	--	05/11/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	61.5
BF-3	--	--	05/11/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	82.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron - Salado Draw 13 SWD
Lea County, New Mexico
32° 02' 10.85" North, 103° 38' 16.73" West

Notes:
Analysis performed by Eurofins-Xenco Laboratories (Xenco), Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride).
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)
Bold and highlighted indicates analyte concentrations above NMOCD closure criteria.
Bold and highlighted indicates sample location where a deferral is requested.

Figures

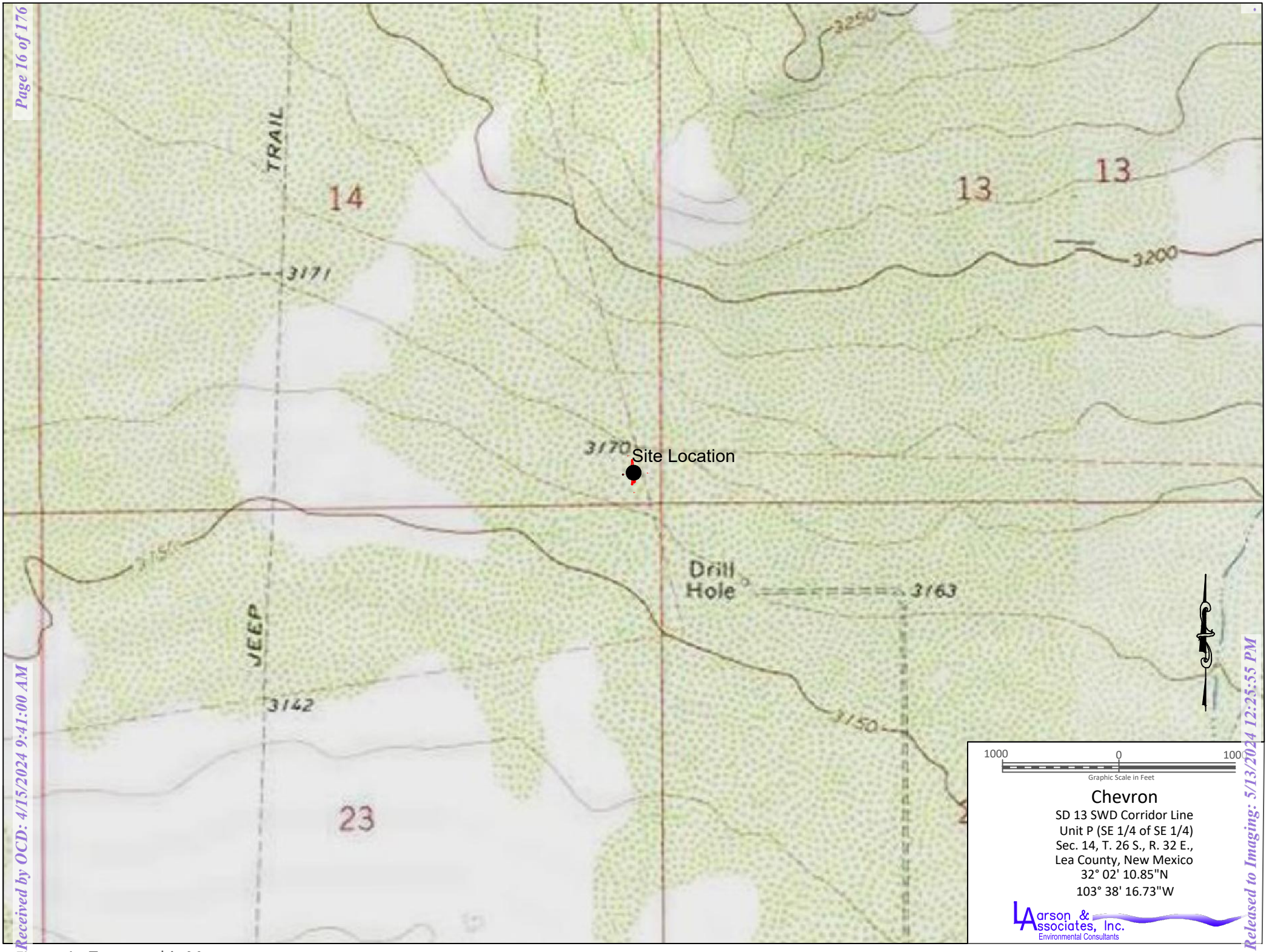


Figure 1 - Topographic Map

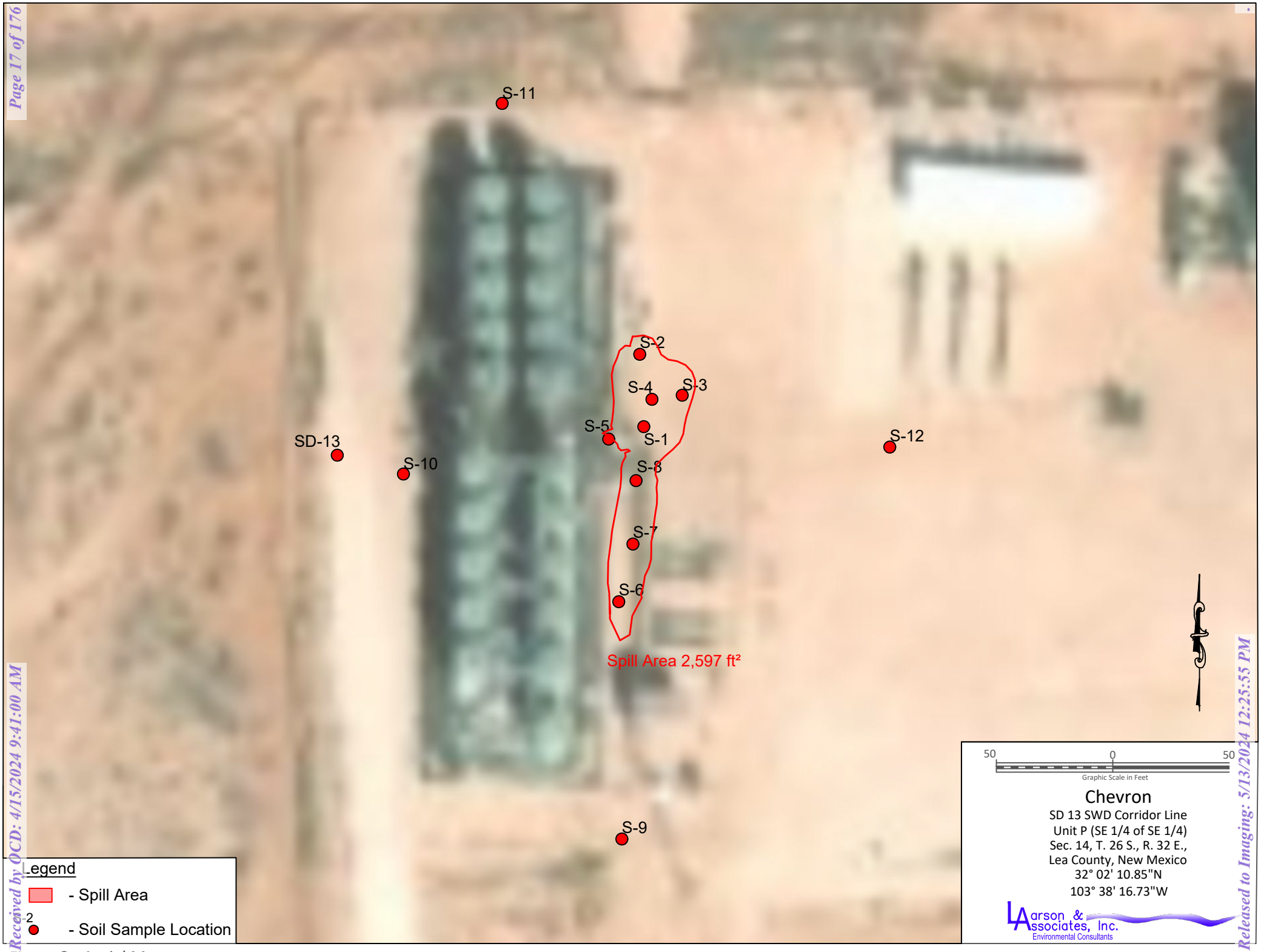


Figure 2 - Aerial Map

Figure 3 - Aerial Map Showing Soil Bore Location

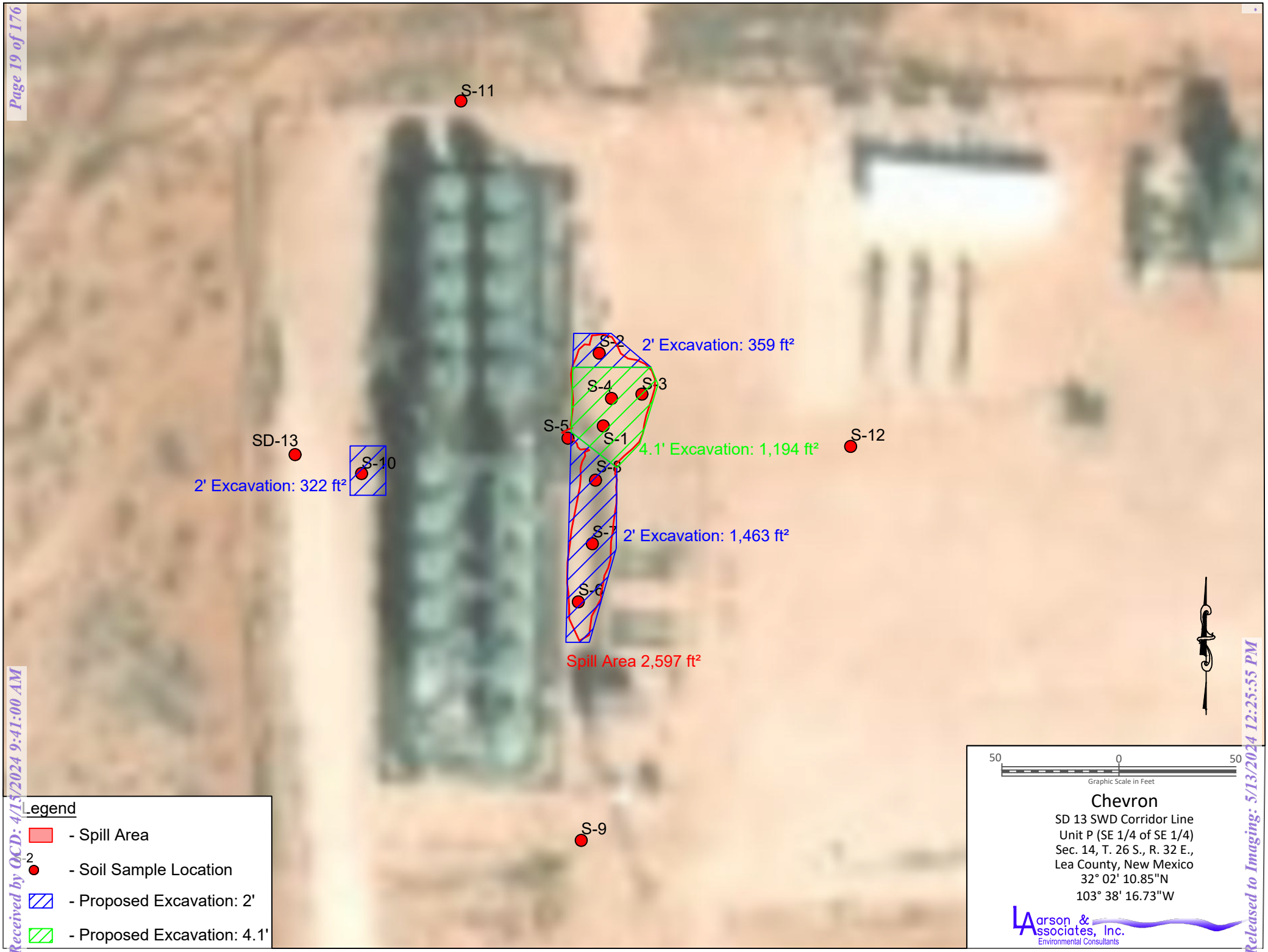


Figure 4 - Aerial Map Showing Proposed Excavation Areas

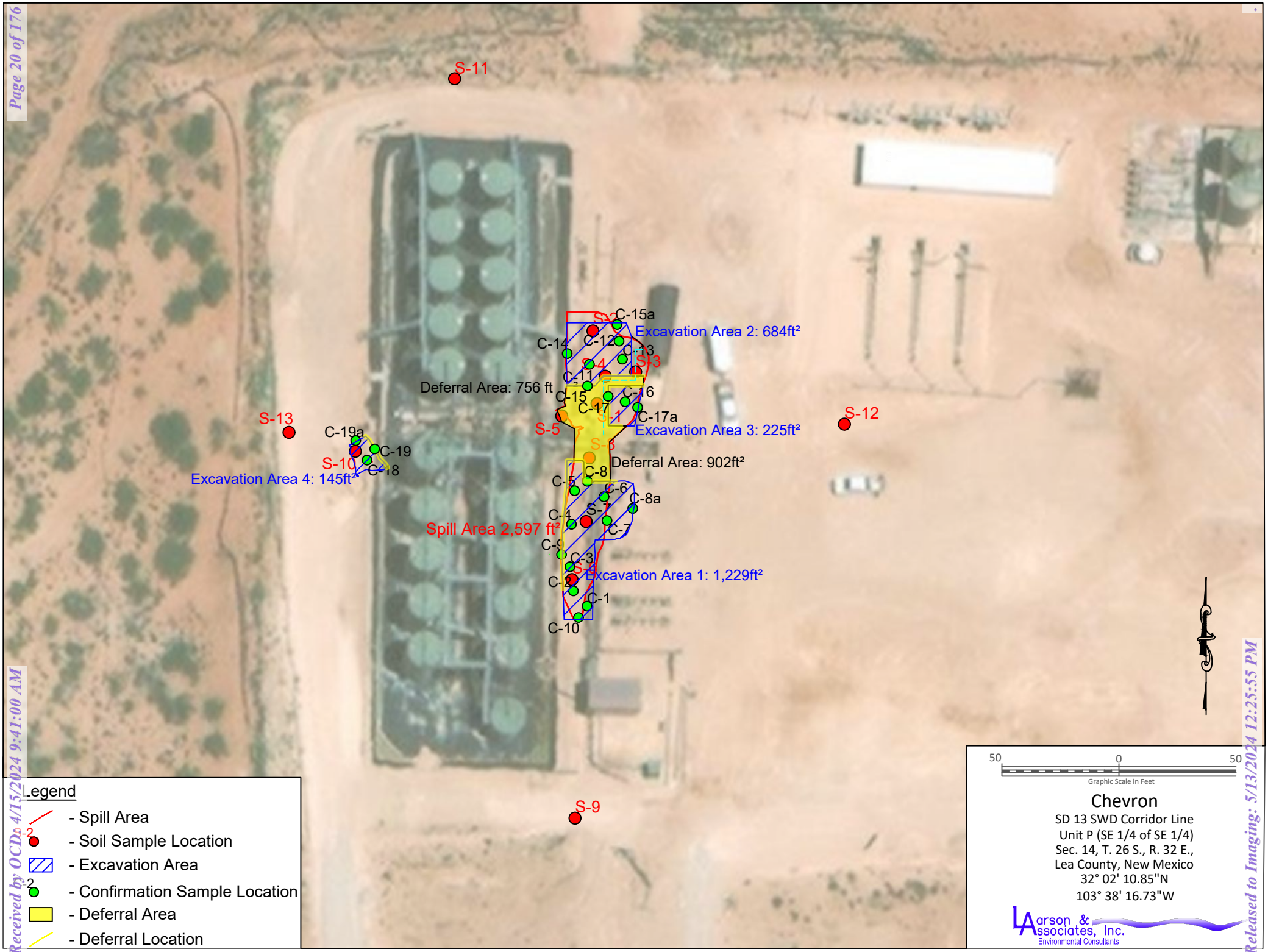


Figure 5 - Aerial Map Showing Excavation Area and Confirmation Samples

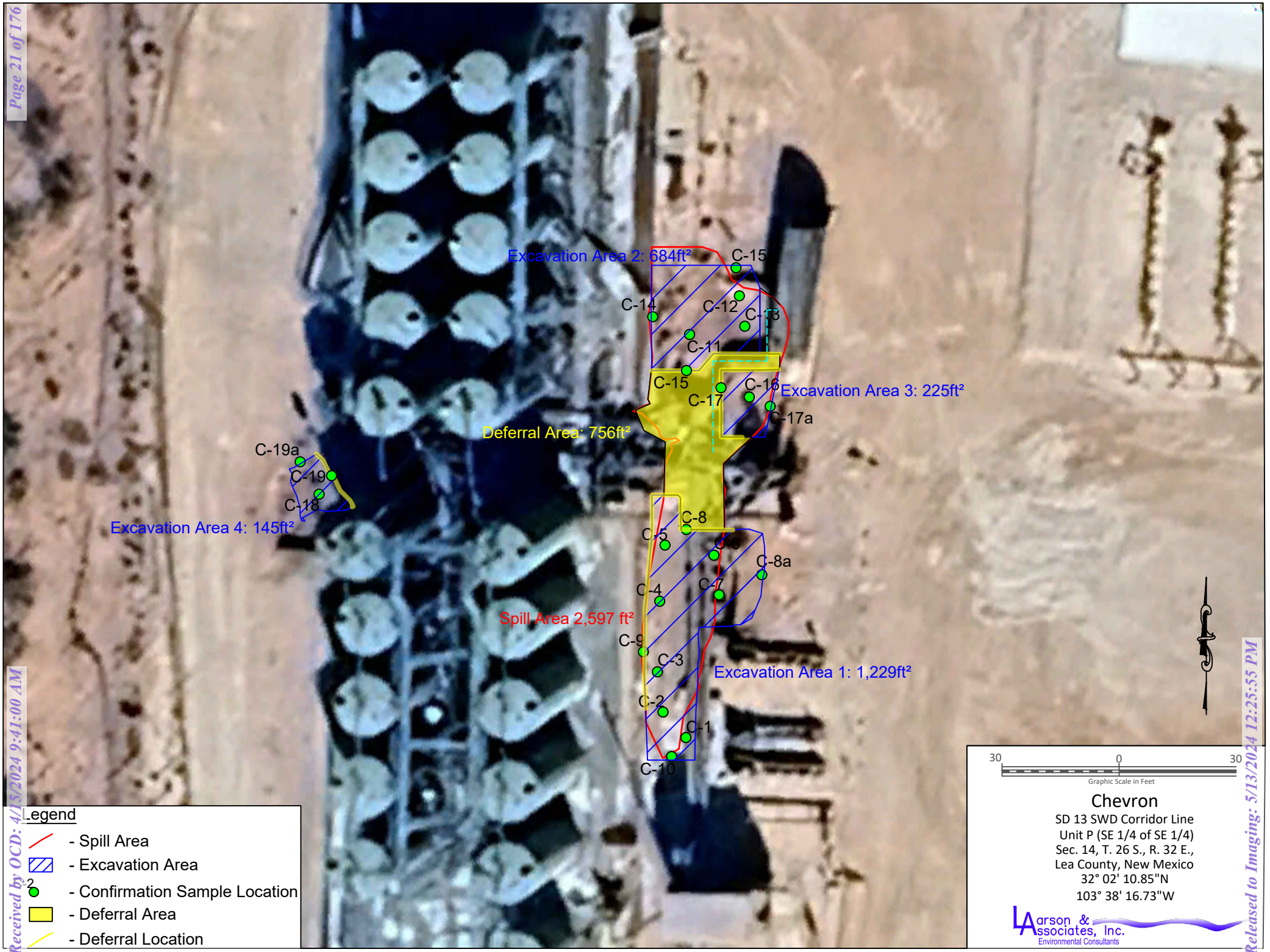


Figure 6 - Focused Aerial Map Showing Deferral Area

Appendix A

Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2109651124
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident #nAPP2109651124
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude: 32.035564 Longitude: -103.637997
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw 13 SWD Discharge Line	Site Type: Oil
Date Release Discovered: 3-25-21	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	23	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): 6.44	Volume Recovered (bbls): 5.5
	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: Spill was due to a pin hole leak in the spool piece on the common discharge line off of the three charge pumps.
Immediate Actions Taken: Shut off pumps. Isolated closest upstream and downstream isolation valves for spool piece.

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Amy Barnhill_____ Title: Water Specialist_____

Signature: _____ Date: 4-6-21_____

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

OCD Only

Received by: _____ Date: _____

Spill Calculations

Area 1
Shape:Rectangle
Secondary Containment?:No
Standing Liquid Dimensions: 18 ft x 9 ft x 1 in
Standing Liquid Volume:2.404 bbl
Oil Skim Dimensions: 18 ft x 9 ft x 0 in
Oil Volume: .000 bbl
Penetration Depth: 0 in
Water to Soil Volume: .000 bbl
*Water Volume:***2.404 bbl**

Area 2
Shape:Rectangle
Secondary Containment?:No
Standing Liquid Dimensions:30 ft x 9 ft x 1 in
Standing Liquid Volume:4.007 bbl
Oil Skim Dimensions:30 ft x 9 ft x 0 in
Oil Volume: .000 bbl
Penetration Depth:0 in
Water to Soil Volume: .000 bbl
*Water Volume:***4.007 bbl**

Area 3
Shape:Rectangle
Secondary Containment?:No
Standing Liquid Dimensions:4 ft x 2 ft x .25 in
Standing Liquid Volume:.030 bbl
Oil Skim Dimensions:4 ft x 2 ft x 0 in
Oil Volume: .000 bbl
Penetration Depth:0 in
Water to Soil Volume: .000 bbl
*Water Volume:***0.03 bbl**

Appendix B

Karst Potential Map


Salado Draw 13 SWD
Medium

Appendix C

Boring Log

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0–5	Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry	ML	
	5–25	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry	Caliche	
	25–30	Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted	ML	
	30–39	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)	Caliche	
	39–60	Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm)	ML	

PID READING: PPM X 1 (2 4 6 8 10 12 14 16 18)

SAMPLE

NUMBER	PID READING	RECOVERY	DEPTH
1			7
2			25
3			30
4			39

REMARKS: BACKGROUND PID READING
SOIL : _____ PPM
SOIL : _____ PPM

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

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020

BORING NUMBER : SB-01

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING (PPM X 1)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
	65	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)	ML			5			66	SOIL : PPM SOIL : PPM
	70								70	
	75								75	
	80								80	
	85								85	
	90	Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)	ML						90	
	95								95	
	100	TD:101.5' *Dry After 72 Hours*				6			100 101.5	
	105								105	

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020
BORING NUMBER : SB-01

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

Appendix D

NMOCD Communications

From: Barnhill, Amy D.
To: Robert Nelson
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 114489
Date: Monday, June 13, 2022 12:34:39 PM

SWD 13

Thank you,
Amy

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, June 7, 2022 4:43 PM
To: Barnhill, Amy D. <ABarnhill@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has approved the application, Application ID: 114489

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2109651124, with the following conditions:

- **Remediation Plan Approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	293468	**Districts:**	Hobbs
Operator:	[4323] CHEVRON U S A INC	**Counties:**	Lea
Description:	CHEVRON U S A INC [4323] , SALADO DRAW 13 SWD , nAPP2109651124		
Status:	APPROVED		
Status Date:	12/12/2023		
References (1):	nAPP2109651124		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2109651124**
Incident Name	**NAPP2109651124 SALADO DRAW 13 SWD @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**

Location of Release Source

Site Name	**SALADO DRAW 13 SWD**
Date Release Discovered	**03/25/2021**
Surface Owner	**Federal**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2023
Time sampling will commence	10:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	432-687-0901 Robert Nelson
Please provide any information necessary for navigation to sampling site	Navigation to the site can be a gps coordinate and is as follows: 32.036338, -103.637711

does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *abarnhill (12/12/2023),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back

Appendix E

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 5/22/2023 4:58:06 PM

JOB DESCRIPTION

SD 13 SWD
SDG NUMBER 21-0100-20

JOB NUMBER

880-28402-1

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
5/22/2023 4:58:06 PM

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

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Laboratory Job ID: 880-28402-1
SDG: 21-0100-20

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-28402-1
Project/Site: SD 13 SWD SDG: 21-0100-20

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Job ID: 880-28402-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28402-1

Receipt
The samples were received on 5/15/2023 8:33 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 -6.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BF-1 (880-28402-1) and BF-3 (880-28402-2).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-53724/52). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-53496/5-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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53468 and analytical batch 880-53448 was outside the upper control limits.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Client Sample ID: BF-1

Lab Sample ID: 880-28402-1
Matrix: Solid
Date Collected: 05/11/23 11:00
Date Received: 05/15/23 08:33

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		05/16/23 15:13	05/20/23 15:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/23 15:13	05/20/23 15:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/23 15:13	05/20/23 15:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/16/23 15:13	05/20/23 15:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/23 15:13	05/20/23 15:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/23 15:13	05/20/23 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/16/23 15:13*	*05/20/23 15:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/16/23 15:13*	*05/20/23 15:21*	*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			05/22/23 15:52	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			05/17/23 11:56	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		05/16/23 11:44	05/17/23 03:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/17/23 03:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/17/23 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*05/16/23 11:44*	*05/17/23 03:15*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*05/16/23 11:44*	*05/17/23 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.5**		5.02		mg/Kg			05/17/23 13:06	1

Client Sample ID: BF-3

Lab Sample ID: 880-28402-2
Matrix: Solid
Date Collected: 05/11/23 11:05
Date Received: 05/15/23 08:33

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		05/16/23 15:13	05/20/23 15:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 15:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 15:41	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/16/23 15:13	05/20/23 15:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 15:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/23 15:13	05/20/23 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/16/23 15:13*	*05/20/23 15:41*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/16/23 15:13*	*05/20/23 15:41*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Client Sample ID: BF-3

Date Collected: 05/11/23 11:05
Date Received: 05/15/23 08:33

Lab Sample ID: 880-28402-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/22/23 15:52	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			05/17/23 11:56	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		05/16/23 11:44	05/17/23 03:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/17/23 03:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/17/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*05/16/23 11:44*	*05/17/23 03:36*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*05/16/23 11:44*	*05/17/23 03:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.6**		5.05		mg/Kg			05/17/23 13:22	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-28402-1	BF-1	110	91										
880-28402-2	BF-3	116	83										
LCS 880-53496/1-A	Lab Control Sample	116	101										
LCSD 880-53496/2-A	Lab Control Sample Dup	111	110										
MB 880-53496/5-A	Method Blank	69 S1-	88										
MB 880-53768/5-A	Method Blank	90	100										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-28402-1	BF-1	112	82										
880-28402-2	BF-3	118	87										
LCS 880-53468/2-A	Lab Control Sample	104	83										
LCSD 880-53468/3-A	Lab Control Sample Dup	103	79										
MB 880-53468/1-A	Method Blank	191 S1+	156 S1+										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53496/5-A
Matrix: Solid
Analysis Batch: 53724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53496

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 08:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 08:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 08:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/16/23 15:13	05/20/23 08:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/23 15:13	05/20/23 08:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/23 15:13	05/20/23 08:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*05/16/23 15:13*	*05/20/23 08:49*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/16/23 15:13*	*05/20/23 08:49*	*1*

Lab Sample ID: LCS 880-53496/1-A
Matrix: Solid
Analysis Batch: 53724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1100		mg/Kg		110	70 - 130		
Toluene			0.100	0.09513		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.1021		mg/Kg		102	70 - 130		
m,p-Xylenes			0.200	0.2096		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1271		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-53496/2-A
Matrix: Solid
Analysis Batch: 53724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53496

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1234		mg/Kg		123	70 - 130	11	35
Toluene			0.100	0.1044		mg/Kg		104	70 - 130	9	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	2	35
m,p-Xylenes			0.200	0.2166		mg/Kg		108	70 - 130	3	35
o-Xylene			0.100	0.1176		mg/Kg		118	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-53768/5-A
Matrix: Solid
Analysis Batch: 53724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53768

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/23 11:17	05/19/23 22:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/23 11:17	05/19/23 22:14	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

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

Lab Sample ID: MB 880-53768/5-A
Matrix: Solid
Analysis Batch: 53724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53768

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/23 11:17	05/19/23 22:14	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/19/23 11:17	05/19/23 22:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/23 11:17	05/19/23 22:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/23 11:17	05/19/23 22:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/19/23 11:17*	*05/19/23 22:14*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/19/23 11:17*	*05/19/23 22:14*	*1*

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

Lab Sample ID: MB 880-53468/1-A
Matrix: Solid
Analysis Batch: 53448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53468

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/16/23 19:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/16/23 19:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/23 11:44	05/16/23 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*191*	*S1+*	*70 - 130*	*05/16/23 11:44*	*05/16/23 19:50*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*05/16/23 11:44*	*05/16/23 19:50*	*1*

Lab Sample ID: LCS 880-53468/2-A
Matrix: Solid
Analysis Batch: 53448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53468

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	900.4		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	949.6		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 880-53468/3-A
Matrix: Solid
Analysis Batch: 53448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	843.8		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			999	890.3		mg/Kg		89	70 - 130	6	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

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

Lab Sample ID: LCSD 880-53468/3-A
Matrix: Solid
Analysis Batch: 53448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53468

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	103		70 - 130
o-Terphenyl (Surr)	79		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53366/1-A
Matrix: Solid
Analysis Batch: 53577

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			05/17/23 12:50	1

Lab Sample ID: LCS 880-53366/2-A
Matrix: Solid
Analysis Batch: 53577

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-53366/3-A
Matrix: Solid
Analysis Batch: 53577

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	250.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-28402-1 MS
Matrix: Solid
Analysis Batch: 53577

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.5		251	301.0		mg/Kg		95	90 - 110		

Lab Sample ID: 880-28402-1 MSD
Matrix: Solid
Analysis Batch: 53577

Client Sample ID: BF-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.5		251	300.2		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

GC VOA

Prep Batch: 53496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	5035	
880-28402-2	BF-3	Total/NA	Solid	5035	
MB 880-53496/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53496/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53496/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 53724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	8021B	53496
880-28402-2	BF-3	Total/NA	Solid	8021B	53496
MB 880-53496/5-A	Method Blank	Total/NA	Solid	8021B	53496
MB 880-53768/5-A	Method Blank	Total/NA	Solid	8021B	53768
LCS 880-53496/1-A	Lab Control Sample	Total/NA	Solid	8021B	53496
LCSD 880-53496/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53496

Prep Batch: 53768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53768/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	Total BTEX	
880-28402-2	BF-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	8015B NM	53468
880-28402-2	BF-3	Total/NA	Solid	8015B NM	53468
MB 880-53468/1-A	Method Blank	Total/NA	Solid	8015B NM	53468
LCS 880-53468/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53468
LCSD 880-53468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53468

Prep Batch: 53468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	8015NM Prep	
880-28402-2	BF-3	Total/NA	Solid	8015NM Prep	
MB 880-53468/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53468/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Total/NA	Solid	8015 NM	
880-28402-2	BF-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

HPLC/IC (Continued)

Leach Batch: 53366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-2	BF-3	Soluble	Solid	DI Leach	
MB 880-53366/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53366/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53366/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28402-1 MS	BF-1	Soluble	Solid	DI Leach	
880-28402-1 MSD	BF-1	Soluble	Solid	DI Leach	

Analysis Batch: 53577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28402-1	BF-1	Soluble	Solid	300.0	53366
880-28402-2	BF-3	Soluble	Solid	300.0	53366
MB 880-53366/1-A	Method Blank	Soluble	Solid	300.0	53366
LCS 880-53366/2-A	Lab Control Sample	Soluble	Solid	300.0	53366
LCSD 880-53366/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53366
880-28402-1 MS	BF-1	Soluble	Solid	300.0	53366
880-28402-1 MSD	BF-1	Soluble	Solid	300.0	53366

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Client Sample ID: BF-1

Date Collected: 05/11/23 11:00
Date Received: 05/15/23 08:33

Lab Sample ID: 880-28402-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	53496	05/16/23 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53915	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53591	05/17/23 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53468	05/16/23 11:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53448	05/17/23 03:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53366	05/17/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53577	05/17/23 13:06	CH	EET MID

Client Sample ID: BF-3

Date Collected: 05/11/23 11:05
Date Received: 05/15/23 08:33

Lab Sample ID: 880-28402-2

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			5.01 g	5 mL	53496	05/16/23 15:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53724	05/20/23 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53915	05/22/23 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			53591	05/17/23 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53468	05/16/23 11:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53448	05/17/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53366	05/17/23 11:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53577	05/17/23 13:22	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: 880-28402-1
Project/Site: SD 13 SWD SDG: 21-0100-20

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

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: SD 13 SWD

Job ID: 880-28402-1
SDG: 21-0100-20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28402-1	BF-1	Solid	05/11/23 11:00	05/15/23 08:33
880-28402-2	BF-3	Solid	05/11/23 11:05	05/15/23 08:33

28402

No. 2998

CHAIN-OF-CUSTODY

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

DATE 5-15-23 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD 13 SWR

LAI PROJECT # 21-0100-20 COLLECTOR RG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State MNT/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☐ MTBE ☐	TPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
BF-1,		5/11/23	1140	S	1				X		X			X	X	X													X		702
BF-3,		5/11/23	1105	S	1				X		X			X	X	X													X		
TOTAL																															

RELINQUISHED BY (Signature) Kent Garcia DATE/TIME 5/15/23 0833 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

880-28402 Chain of Custody

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

LABORATORY USE ONLY:
RECEIVING TEMP -0.9 / -0.6 THERM# IR8-30
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-28402-1
SDG Number: 21-0100-20

Login Number: 28402
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 6/5/2023 4:15:53 PM

JOB DESCRIPTION

Saldo Draw 13 SWD
SDG NUMBER 21-0100-20

JOB NUMBER

880-28880-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
6/5/2023 4:15:53 PM

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

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-28880-1
Project/Site: Saldo Draw 13 SWD SDG: 21-0100-20

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-28880-1
Project/Site: Saldo Draw 13 SWD SDG: 21-0100-20

Job ID: 880-28880-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28880-1

Receipt
The samples were received on 5/30/2023 8:51 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 -11.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-1, 2' (880-28880-1), C-2, 2' (880-28880-2), C-3, 2' (880-28880-3), C-4, 2' (880-28880-4), C-5, 2' (880-28880-5), C-6, 2' (880-28880-6), C-7, 2' (880-28880-7), C-8, 0-2' (880-28880-8), C-9 0-2' (880-28880-9), C-10 0-2' (880-28880-10), C-11 3' (880-28880-11), C-12, 4.1' (880-28880-12), C-13, 4.1' (880-28880-13), C-14, 0-3' (880-28880-14), C-15, 0-3' (880-28880-15), C-16, 4.1' (880-28880-16) and C-17, 0-4.1' (880-28880-17).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54640 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The samples with a detection are being re-analyzed for confirmation. The associated samples are impacted: (CCV 880-54640/33), (CCV 880-54640/51), (CCV 880-54640/64), (CCV 880-54640/82) and (CCV 880-54640/95).

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: C-1, 2' (880-28880-1), C-2, 2' (880-28880-2), C-3, 2' (880-28880-3), C-4, 2' (880-28880-4), C-5, 2' (880-28880-5), C-6, 2' (880-28880-6) and C-8, 0-2' (880-28880-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54429 and analytical batch 880-54329 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-54329/14). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54453 and analytical batch 880-54532 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-9 0-2' (880-28880-9), C-10 0-2' (880-28880-10), C-11 3' (880-28880-11), C-12, 4.1' (880-28880-12), C-13, 4.1' (880-28880-13), C-14, 0-3' (880-28880-14), C-15, 0-3' (880-28880-15), C-16, 4.1' (880-28880-16), C-17, 0-4.1' (880-28880-17), (880-28880-A-9-B MS) and (880-28880-A-9-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54461 and analytical batch 880-54527 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54463 and analytical batch 880-54515 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: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-1, 2'

Date Collected: 05/24/23 08:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 15:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 15:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 15:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 15:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 15:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 00:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 00:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 00:08*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*05/30/23 16:07*	*05/31/23 00:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.4**		5.01		mg/Kg			05/31/23 19:30	1

Client Sample ID: C-2, 2'

Date Collected: 05/24/23 08:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 15:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 15:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 15:35	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/31/23 13:45	06/03/23 15:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 15:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/31/23 13:45	06/03/23 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:35*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-2, 2'

Date Collected: 05/24/23 08:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 00:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:07	05/31/23 00:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:07	05/31/23 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 00:30*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*05/30/23 16:07*	*05/31/23 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**326**		4.95		mg/Kg			05/31/23 19:35	1

Client Sample ID: C-3, 2'

Date Collected: 05/24/23 08:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-3
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		05/31/23 13:45	06/03/23 15:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 15:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 15:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 15:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 15:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/31/23 13:45*	*06/03/23 15:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 00:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 00:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-3, 2'

Date Collected: 05/24/23 08:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-3
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		05/30/23 16:07	05/31/23 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 00:51*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*05/30/23 16:07*	*05/31/23 00:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		5.02		mg/Kg			05/31/23 19:41	1

Client Sample ID: C-4, 2'

Date Collected: 05/24/23 08:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-4
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		05/31/23 13:45	06/03/23 16:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 16:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 16:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 16:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 16:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 01:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 01:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 01:13*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*05/30/23 16:07*	*05/31/23 01:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**524**		4.99		mg/Kg			05/31/23 19:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-5, 2'

Date Collected: 05/24/23 08:40
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:36	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 16:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/31/23 09:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/30/23 16:07	05/31/23 01:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/30/23 16:07	05/31/23 01:35	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/30/23 16:07	05/31/23 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 01:35*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*05/30/23 16:07*	*05/31/23 01:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**455**	**F1**	4.98		mg/Kg			05/31/23 19:51	1

Client Sample ID: C-6, 2'

Date Collected: 05/24/23 08:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:56	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/31/23 13:45	06/03/23 16:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 16:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/31/23 13:45	06/03/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:56*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/31/23 13:45*	*06/03/23 16:56*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-6, 2'

Date Collected: 05/24/23 08:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 01:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/30/23 16:07	05/31/23 01:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/30/23 16:07	05/31/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 01:56*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*05/30/23 16:07*	*05/31/23 01:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**693**		5.05		mg/Kg			05/31/23 20:07	1

Client Sample ID: C-7, 2'

Date Collected: 05/24/23 09:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 17:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 17:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 17:17	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/31/23 13:45	06/03/23 17:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 17:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/31/23 13:45	06/03/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:17*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 02:18	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-7, 2'

Date Collected: 05/24/23 09:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*05/30/23 16:07*	*05/31/23 02:18*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*05/30/23 16:07*	*05/31/23 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		24.9		mg/Kg			05/31/23 20:12	5

Client Sample ID: C-8, 0-2'

Date Collected: 05/24/23 09:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 17:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 17:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 17:37	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/31/23 13:45	06/03/23 17:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 17:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/31/23 13:45	06/03/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:37*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/05/23 16:54	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			05/31/23 09:49	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		05/30/23 16:07	05/31/23 02:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 02:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/31/23 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*137*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/31/23 02:39*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*05/30/23 16:07*	*05/31/23 02:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**827**		5.03		mg/Kg			05/31/23 20:29	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-9 0-2'

Lab Sample ID: 880-28880-9
Matrix: Solid
Date Collected: 05/24/23 09:20
Date Received: 05/30/23 08:51

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		05/31/23 13:45	06/03/23 17:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 17:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 17:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 17:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 17:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/31/23 13:45*	*06/03/23 17:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 11:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 11:21*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*05/31/23 09:15*	*06/01/23 11:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2380**		24.9		mg/Kg			05/31/23 20:34	5

Client Sample ID: C-10 0-2'

Lab Sample ID: 880-28880-10
Matrix: Solid
Date Collected: 05/24/23 09:30
Date Received: 05/30/23 08:51

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		05/31/23 13:45	06/03/23 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 18:18	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/31/23 13:45*	*06/03/23 18:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/31/23 13:45*	*06/03/23 18:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-10 0-2'

Date Collected: 05/24/23 09:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/02/23 09:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 12:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 12:26	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 12:26*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*05/31/23 09:15*	*06/01/23 12:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**422**		4.95		mg/Kg			05/31/23 20:39	1

Client Sample ID: C-11 3'

Date Collected: 05/24/23 10:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-11
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		05/31/23 13:45	06/03/23 20:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 20:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 20:09	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 20:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 20:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:09*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 12:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 12:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-11 3'

Date Collected: 05/24/23 10:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-11

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)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 12:48*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*05/31/23 09:15*	*06/01/23 12:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**688**		5.04		mg/Kg			05/31/23 20:45	1

Client Sample ID: C-12, 4.1'

Date Collected: 05/24/23 10:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-12

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		05/31/23 13:45	06/03/23 20:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:45	06/03/23 20:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:45	06/03/23 20:29	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/31/23 13:45	06/03/23 20:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/31/23 13:45	06/03/23 20:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/31/23 13:45	06/03/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:29*	*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			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 13:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 13:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*152*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 13:10*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*05/31/23 09:15*	*06/01/23 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		5.01		mg/Kg			05/31/23 20:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-13, 4.1'

Date Collected: 05/24/23 10:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 20:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 20:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 20:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 20:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 20:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/31/23 13:45*	*06/03/23 20:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 13:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*150*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 13:31*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*05/31/23 09:15*	*06/01/23 13:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**171**		4.96		mg/Kg			05/31/23 20:55	1

Client Sample ID: C-14, 0-3'

Date Collected: 05/24/23 10:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-14
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		05/31/23 13:45	06/03/23 21:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 21:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 21:10	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 21:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 21:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/31/23 13:45	06/03/23 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:10*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-14, 0-3'

Lab Sample ID: 880-28880-14
Matrix: Solid
Date Collected: 05/24/23 10:30
Date Received: 05/30/23 08:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/02/23 09:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 13:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 13:53	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/31/23 09:15	06/01/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 13:53*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*05/31/23 09:15*	*06/01/23 13:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		5.03		mg/Kg			05/31/23 21:01	1

Client Sample ID: C-15, 0-3'

Lab Sample ID: 880-28880-15
Matrix: Solid
Date Collected: 05/24/23 10:40
Date Received: 05/30/23 08:51

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		05/31/23 13:45	06/03/23 21:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 21:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 21:31	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/31/23 13:45	06/03/23 21:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/31/23 13:45	06/03/23 21:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/31/23 13:45	06/03/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 14:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 14:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-15, 0-3'

Date Collected: 05/24/23 10:40
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-15
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		05/31/23 09:15	06/01/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*148*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 14:15*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*05/31/23 09:15*	*06/01/23 14:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1570**	**F1**	25.1		mg/Kg			05/31/23 21:43	5

Client Sample ID: C-16, 4.1'

Date Collected: 05/24/23 10:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 21:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 21:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 21:51	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/31/23 13:45	06/03/23 21:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/31/23 13:45	06/03/23 21:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/31/23 13:45	06/03/23 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/31/23 13:45*	*06/03/23 21:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 14:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 14:36*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*05/31/23 09:15*	*06/01/23 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.02		mg/Kg			05/31/23 21:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-17, 0-4.1'

Date Collected: 05/24/23 11:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 22:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 22:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 22:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 22:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/31/23 13:45	06/03/23 22:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/31/23 13:45	06/03/23 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/31/23 13:45*	*06/03/23 22:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/31/23 13:45*	*06/03/23 22:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/05/23 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/02/23 09:38	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		05/31/23 09:15	06/01/23 14:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 14:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/31/23 09:15	06/01/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 14:58*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*05/31/23 09:15*	*06/01/23 14:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1280**		25.0		mg/Kg			05/31/23 22:05	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

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)
880-28880-1	C-1, 2'	86	95
880-28880-1 MS	C-1, 2'	100	96
880-28880-1 MSD	C-1, 2'	104	92
880-28880-2	C-2, 2'	88	96
880-28880-3	C-3, 2'	87	93
880-28880-4	C-4, 2'	89	97
880-28880-5	C-5, 2'	82	98
880-28880-6	C-6, 2'	93	93
880-28880-7	C-7, 2'	85	97
880-28880-8	C-8, 0-2'	95	89
880-28880-9	C-9 0-2'	95	94
880-28880-10	C-10 0-2'	92	102
880-28880-11	C-11 3'	86	99
880-28880-12	C-12, 4.1'	91	98
880-28880-13	C-13, 4.1'	89	92
880-28880-14	C-14, 0-3'	96	98
880-28880-15	C-15, 0-3'	96	99
880-28880-16	C-16, 4.1'	95	99
880-28880-17	C-17, 0-4.1'	91	94
LCS 880-54508/1-A	Lab Control Sample	95	111
LCSD 880-54508/2-A	Lab Control Sample Dup	98	96
MB 880-54508/5-A	Method Blank	85	104
MB 880-54587/5-A	Method Blank	86	109

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)
880-28880-1	C-1, 2'	136 S1+	106
880-28880-2	C-2, 2'	132 S1+	104
880-28880-3	C-3, 2'	134 S1+	105
880-28880-4	C-4, 2'	135 S1+	107
880-28880-5	C-5, 2'	136 S1+	107
880-28880-6	C-6, 2'	132 S1+	103
880-28880-7	C-7, 2'	129	102
880-28880-8	C-8, 0-2'	137 S1+	106
880-28880-9	C-9 0-2'	149 S1+	117
880-28880-9 MS	C-9 0-2'	146 S1+	105
880-28880-9 MSD	C-9 0-2'	146 S1+	105
880-28880-10	C-10 0-2'	145 S1+	111
880-28880-11	C-11 3'	146 S1+	113
880-28880-12	C-12, 4.1'	152 S1+	119
880-28880-13	C-13, 4.1'	150 S1+	117
880-28880-14	C-14, 0-3'	149 S1+	113

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-28880-1
Project/Site: Saldo Draw 13 SWD SDG: 21-0100-20

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-28880-15	C-15, 0-3'	148 S1+	114								
880-28880-16	C-16, 4.1'	144 S1+	112								
880-28880-17	C-17, 0-4.1'	144 S1+	108								
LCS 880-54429/2-A	Lab Control Sample	114	89								
LCS 880-54453/2-A	Lab Control Sample	107	84								
LCSD 880-54429/3-A	Lab Control Sample Dup	122	95								
LCSD 880-54453/3-A	Lab Control Sample Dup	122	93								
MB 880-54429/1-A	Method Blank	148 S1+	117								
MB 880-54453/1-A	Method Blank	170 S1+	133 S1+								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54508/5-A
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54508

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 14:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/31/23 13:45	06/03/23 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/31/23 13:45	06/03/23 14:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/31/23 13:45	06/03/23 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/31/23 13:45*	*06/03/23 14:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/31/23 13:45*	*06/03/23 14:45*	*1*

Lab Sample ID: LCS 880-54508/1-A
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1234		mg/Kg		123	70 - 130		
Toluene			0.100	0.1152		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.09410		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1704		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08628		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-54508/2-A
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1217		mg/Kg		122	70 - 130	1	35
Toluene			0.100	0.1031		mg/Kg		103	70 - 130	11	35
Ethylbenzene			0.100	0.09601		mg/Kg		96	70 - 130	2	35
m,p-Xylenes			0.200	0.1759		mg/Kg		88	70 - 130	3	35
o-Xylene			0.100	0.08910		mg/Kg		89	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-28880-1 MS
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: C-1, 2'
Prep Type: Total/NA
Prep Batch: 54508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1105		mg/Kg		111	70 - 130		
Toluene	<0.00200	U	0.0998	0.09914		mg/Kg		99	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

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

Lab Sample ID: 880-28880-1 MS
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: C-1, 2'
Prep Type: Total/NA
Prep Batch: 54508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09553		mg/Kg		96	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1696		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08182		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-28880-1 MSD
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: C-1, 2'
Prep Type: Total/NA
Prep Batch: 54508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1185		mg/Kg		120	70 - 130	7	35
Toluene	<0.00200	U	0.0990	0.1064		mg/Kg		107	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.0990	0.1059		mg/Kg		107	70 - 130	10	35
m,p-Xylenes	<0.00399	U	0.198	0.1882		mg/Kg		95	70 - 130	10	35
o-Xylene	<0.00200	U	0.0990	0.08712		mg/Kg		88	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-54587/5-A
Matrix: Solid
Analysis Batch: 54640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54587

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/01/23 13:10	06/03/23 02:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/01/23 13:10	06/03/23 02:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/01/23 13:10	06/03/23 02:51	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		06/01/23 13:10	06/03/23 02:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/01/23 13:10	06/03/23 02:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/01/23 13:10	06/03/23 02:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/01/23 13:10*	*06/03/23 02:51*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/01/23 13:10*	*06/03/23 02:51*	*1*

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

Lab Sample ID: MB 880-54429/1-A
Matrix: Solid
Analysis Batch: 54329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54429

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		05/30/23 16:07	05/30/23 17:37	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

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

Lab Sample ID: MB 880-54429/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54329 — **Prep Batch: 54429**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/30/23 17:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/30/23 16:07	05/30/23 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*148*	*S1+*	*70 - 130*	*05/30/23 16:07*	*05/30/23 17:37*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*05/30/23 16:07*	*05/30/23 17:37*	*1*

Lab Sample ID: LCS 880-54429/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54329 — **Prep Batch: 54429**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	936.5		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1013		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-54429/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54329 — **Prep Batch: 54429**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	982.8		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1014		mg/Kg		101	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*122*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-54453/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54532 — **Prep Batch: 54453**

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		05/31/23 09:15	06/01/23 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 08:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/31/23 09:15	06/01/23 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*170*	*S1+*	*70 - 130*	*05/31/23 09:15*	*06/01/23 08:40*	*1*

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

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

Lab Sample ID: MB 880-54453/1-A
Matrix: Solid
Analysis Batch: 54532

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54453

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	133	S1+	70 - 130	05/31/23 09:15	06/01/23 08:40	1

Lab Sample ID: LCS 880-54453/2-A
Matrix: Solid
Analysis Batch: 54532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	913.7		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	946.1		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-54453/3-A
Matrix: Solid
Analysis Batch: 54532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54453

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: 880-28880-9 MS
Matrix: Solid
Analysis Batch: 54532

Client Sample ID: C-9 0-2'
Prep Type: Total/NA
Prep Batch: 54453

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	999	1201		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1124		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	146	S1+	70 - 130
o-Terphenyl (Surr)	105		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

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

Lab Sample ID: 880-28880-9 MSD
Matrix: Solid
Analysis Batch: 54532

Client Sample ID: C-9 0-2'
Prep Type: Total/NA
Prep Batch: 54453

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	997	1191		mg/Kg		119	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1120		mg/Kg		112	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54463/1-A
Matrix: Solid
Analysis Batch: 54515

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			05/31/23 18:21	1

Lab Sample ID: LCS 880-54463/2-A
Matrix: Solid
Analysis Batch: 54515

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-54463/3-A
Matrix: Solid
Analysis Batch: 54515

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	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-28880-5 MS
Matrix: Solid
Analysis Batch: 54515

Client Sample ID: C-5, 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	455	F1	249	653.1	F1	mg/Kg		80	90 - 110		

Lab Sample ID: 880-28880-5 MSD
Matrix: Solid
Analysis Batch: 54515

Client Sample ID: C-5, 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	455	F1	249	653.2	F1	mg/Kg		80	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-54461/1-A
Matrix: Solid
Analysis Batch: 54527

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			05/31/23 21:27	1

Lab Sample ID: LCS 880-54461/2-A
Matrix: Solid
Analysis Batch: 54527

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-54461/3-A
Matrix: Solid
Analysis Batch: 54527

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	255.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-28880-15 MS
Matrix: Solid
Analysis Batch: 54527

Client Sample ID: C-15, 0-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1570	F1	1250	2680	F1	mg/Kg		89	90 - 110		

Lab Sample ID: 880-28880-15 MSD
Matrix: Solid
Analysis Batch: 54527

Client Sample ID: C-15, 0-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1570	F1	1250	2682	F1	mg/Kg		89	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

GC VOA

Prep Batch: 54508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	5035	
880-28880-2	C-2, 2'	Total/NA	Solid	5035	
880-28880-3	C-3, 2'	Total/NA	Solid	5035	
880-28880-4	C-4, 2'	Total/NA	Solid	5035	
880-28880-5	C-5, 2'	Total/NA	Solid	5035	
880-28880-6	C-6, 2'	Total/NA	Solid	5035	
880-28880-7	C-7, 2'	Total/NA	Solid	5035	
880-28880-8	C-8, 0-2'	Total/NA	Solid	5035	
880-28880-9	C-9 0-2'	Total/NA	Solid	5035	
880-28880-10	C-10 0-2'	Total/NA	Solid	5035	
880-28880-11	C-11 3'	Total/NA	Solid	5035	
880-28880-12	C-12, 4.1'	Total/NA	Solid	5035	
880-28880-13	C-13, 4.1'	Total/NA	Solid	5035	
880-28880-14	C-14, 0-3'	Total/NA	Solid	5035	
880-28880-15	C-15, 0-3'	Total/NA	Solid	5035	
880-28880-16	C-16, 4.1'	Total/NA	Solid	5035	
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	5035	
MB 880-54508/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54508/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54508/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28880-1 MS	C-1, 2'	Total/NA	Solid	5035	
880-28880-1 MSD	C-1, 2'	Total/NA	Solid	5035	

Prep Batch: 54587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54587/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 54640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	8021B	54508
880-28880-2	C-2, 2'	Total/NA	Solid	8021B	54508
880-28880-3	C-3, 2'	Total/NA	Solid	8021B	54508
880-28880-4	C-4, 2'	Total/NA	Solid	8021B	54508
880-28880-5	C-5, 2'	Total/NA	Solid	8021B	54508
880-28880-6	C-6, 2'	Total/NA	Solid	8021B	54508
880-28880-7	C-7, 2'	Total/NA	Solid	8021B	54508
880-28880-8	C-8, 0-2'	Total/NA	Solid	8021B	54508
880-28880-9	C-9 0-2'	Total/NA	Solid	8021B	54508
880-28880-10	C-10 0-2'	Total/NA	Solid	8021B	54508
880-28880-11	C-11 3'	Total/NA	Solid	8021B	54508
880-28880-12	C-12, 4.1'	Total/NA	Solid	8021B	54508
880-28880-13	C-13, 4.1'	Total/NA	Solid	8021B	54508
880-28880-14	C-14, 0-3'	Total/NA	Solid	8021B	54508
880-28880-15	C-15, 0-3'	Total/NA	Solid	8021B	54508
880-28880-16	C-16, 4.1'	Total/NA	Solid	8021B	54508
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	8021B	54508
MB 880-54508/5-A	Method Blank	Total/NA	Solid	8021B	54508
MB 880-54587/5-A	Method Blank	Total/NA	Solid	8021B	54587
LCS 880-54508/1-A	Lab Control Sample	Total/NA	Solid	8021B	54508
LCSD 880-54508/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54508
880-28880-1 MS	C-1, 2'	Total/NA	Solid	8021B	54508

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

GC VOA (Continued)

Analysis Batch: 54640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1 MSD	C-1, 2'	Total/NA	Solid	8021B	54508

Analysis Batch: 54818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	Total BTEX	
880-28880-2	C-2, 2'	Total/NA	Solid	Total BTEX	
880-28880-3	C-3, 2'	Total/NA	Solid	Total BTEX	
880-28880-4	C-4, 2'	Total/NA	Solid	Total BTEX	
880-28880-5	C-5, 2'	Total/NA	Solid	Total BTEX	
880-28880-6	C-6, 2'	Total/NA	Solid	Total BTEX	
880-28880-7	C-7, 2'	Total/NA	Solid	Total BTEX	
880-28880-8	C-8, 0-2'	Total/NA	Solid	Total BTEX	
880-28880-9	C-9 0-2'	Total/NA	Solid	Total BTEX	
880-28880-10	C-10 0-2'	Total/NA	Solid	Total BTEX	
880-28880-11	C-11 3'	Total/NA	Solid	Total BTEX	
880-28880-12	C-12, 4.1'	Total/NA	Solid	Total BTEX	
880-28880-13	C-13, 4.1'	Total/NA	Solid	Total BTEX	
880-28880-14	C-14, 0-3'	Total/NA	Solid	Total BTEX	
880-28880-15	C-15, 0-3'	Total/NA	Solid	Total BTEX	
880-28880-16	C-16, 4.1'	Total/NA	Solid	Total BTEX	
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	8015B NM	54429
880-28880-2	C-2, 2'	Total/NA	Solid	8015B NM	54429
880-28880-3	C-3, 2'	Total/NA	Solid	8015B NM	54429
880-28880-4	C-4, 2'	Total/NA	Solid	8015B NM	54429
880-28880-5	C-5, 2'	Total/NA	Solid	8015B NM	54429
880-28880-6	C-6, 2'	Total/NA	Solid	8015B NM	54429
880-28880-7	C-7, 2'	Total/NA	Solid	8015B NM	54429
880-28880-8	C-8, 0-2'	Total/NA	Solid	8015B NM	54429
MB 880-54429/1-A	Method Blank	Total/NA	Solid	8015B NM	54429
LCS 880-54429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54429
LCSD 880-54429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54429

Prep Batch: 54429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	8015NM Prep	
880-28880-2	C-2, 2'	Total/NA	Solid	8015NM Prep	
880-28880-3	C-3, 2'	Total/NA	Solid	8015NM Prep	
880-28880-4	C-4, 2'	Total/NA	Solid	8015NM Prep	
880-28880-5	C-5, 2'	Total/NA	Solid	8015NM Prep	
880-28880-6	C-6, 2'	Total/NA	Solid	8015NM Prep	
880-28880-7	C-7, 2'	Total/NA	Solid	8015NM Prep	
880-28880-8	C-8, 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-54429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

GC Semi VOA

Prep Batch: 54453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-9	C-9 0-2'	Total/NA	Solid	8015NM Prep	
880-28880-10	C-10 0-2'	Total/NA	Solid	8015NM Prep	
880-28880-11	C-11 3'	Total/NA	Solid	8015NM Prep	
880-28880-12	C-12, 4.1'	Total/NA	Solid	8015NM Prep	
880-28880-13	C-13, 4.1'	Total/NA	Solid	8015NM Prep	
880-28880-14	C-14, 0-3'	Total/NA	Solid	8015NM Prep	
880-28880-15	C-15, 0-3'	Total/NA	Solid	8015NM Prep	
880-28880-16	C-16, 4.1'	Total/NA	Solid	8015NM Prep	
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	8015NM Prep	
MB 880-54453/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54453/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54453/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28880-9 MS	C-9 0-2'	Total/NA	Solid	8015NM Prep	
880-28880-9 MSD	C-9 0-2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Total/NA	Solid	8015 NM	
880-28880-2	C-2, 2'	Total/NA	Solid	8015 NM	
880-28880-3	C-3, 2'	Total/NA	Solid	8015 NM	
880-28880-4	C-4, 2'	Total/NA	Solid	8015 NM	
880-28880-5	C-5, 2'	Total/NA	Solid	8015 NM	
880-28880-6	C-6, 2'	Total/NA	Solid	8015 NM	
880-28880-7	C-7, 2'	Total/NA	Solid	8015 NM	
880-28880-8	C-8, 0-2'	Total/NA	Solid	8015 NM	
880-28880-9	C-9 0-2'	Total/NA	Solid	8015 NM	
880-28880-10	C-10 0-2'	Total/NA	Solid	8015 NM	
880-28880-11	C-11 3'	Total/NA	Solid	8015 NM	
880-28880-12	C-12, 4.1'	Total/NA	Solid	8015 NM	
880-28880-13	C-13, 4.1'	Total/NA	Solid	8015 NM	
880-28880-14	C-14, 0-3'	Total/NA	Solid	8015 NM	
880-28880-15	C-15, 0-3'	Total/NA	Solid	8015 NM	
880-28880-16	C-16, 4.1'	Total/NA	Solid	8015 NM	
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	8015 NM	

Analysis Batch: 54532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-9	C-9 0-2'	Total/NA	Solid	8015B NM	54453
880-28880-10	C-10 0-2'	Total/NA	Solid	8015B NM	54453
880-28880-11	C-11 3'	Total/NA	Solid	8015B NM	54453
880-28880-12	C-12, 4.1'	Total/NA	Solid	8015B NM	54453
880-28880-13	C-13, 4.1'	Total/NA	Solid	8015B NM	54453
880-28880-14	C-14, 0-3'	Total/NA	Solid	8015B NM	54453
880-28880-15	C-15, 0-3'	Total/NA	Solid	8015B NM	54453
880-28880-16	C-16, 4.1'	Total/NA	Solid	8015B NM	54453
880-28880-17	C-17, 0-4.1'	Total/NA	Solid	8015B NM	54453
MB 880-54453/1-A	Method Blank	Total/NA	Solid	8015B NM	54453
LCS 880-54453/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54453
LCSD 880-54453/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54453
880-28880-9 MS	C-9 0-2'	Total/NA	Solid	8015B NM	54453
880-28880-9 MSD	C-9 0-2'	Total/NA	Solid	8015B NM	54453

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

HPLC/IC

Leach Batch: 54461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-15	C-15, 0-3'	Soluble	Solid	DI Leach	
880-28880-16	C-16, 4.1'	Soluble	Solid	DI Leach	
880-28880-17	C-17, 0-4.1'	Soluble	Solid	DI Leach	
MB 880-54461/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54461/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54461/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28880-15 MS	C-15, 0-3'	Soluble	Solid	DI Leach	
880-28880-15 MSD	C-15, 0-3'	Soluble	Solid	DI Leach	

Leach Batch: 54463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Soluble	Solid	DI Leach	
880-28880-2	C-2, 2'	Soluble	Solid	DI Leach	
880-28880-3	C-3, 2'	Soluble	Solid	DI Leach	
880-28880-4	C-4, 2'	Soluble	Solid	DI Leach	
880-28880-5	C-5, 2'	Soluble	Solid	DI Leach	
880-28880-6	C-6, 2'	Soluble	Solid	DI Leach	
880-28880-7	C-7, 2'	Soluble	Solid	DI Leach	
880-28880-8	C-8, 0-2'	Soluble	Solid	DI Leach	
880-28880-9	C-9 0-2'	Soluble	Solid	DI Leach	
880-28880-10	C-10 0-2'	Soluble	Solid	DI Leach	
880-28880-11	C-11 3'	Soluble	Solid	DI Leach	
880-28880-12	C-12, 4.1'	Soluble	Solid	DI Leach	
880-28880-13	C-13, 4.1'	Soluble	Solid	DI Leach	
880-28880-14	C-14, 0-3'	Soluble	Solid	DI Leach	
MB 880-54463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28880-5 MS	C-5, 2'	Soluble	Solid	DI Leach	
880-28880-5 MSD	C-5, 2'	Soluble	Solid	DI Leach	

Analysis Batch: 54515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-1	C-1, 2'	Soluble	Solid	300.0	54463
880-28880-2	C-2, 2'	Soluble	Solid	300.0	54463
880-28880-3	C-3, 2'	Soluble	Solid	300.0	54463
880-28880-4	C-4, 2'	Soluble	Solid	300.0	54463
880-28880-5	C-5, 2'	Soluble	Solid	300.0	54463
880-28880-6	C-6, 2'	Soluble	Solid	300.0	54463
880-28880-7	C-7, 2'	Soluble	Solid	300.0	54463
880-28880-8	C-8, 0-2'	Soluble	Solid	300.0	54463
880-28880-9	C-9 0-2'	Soluble	Solid	300.0	54463
880-28880-10	C-10 0-2'	Soluble	Solid	300.0	54463
880-28880-11	C-11 3'	Soluble	Solid	300.0	54463
880-28880-12	C-12, 4.1'	Soluble	Solid	300.0	54463
880-28880-13	C-13, 4.1'	Soluble	Solid	300.0	54463
880-28880-14	C-14, 0-3'	Soluble	Solid	300.0	54463
MB 880-54463/1-A	Method Blank	Soluble	Solid	300.0	54463
LCS 880-54463/2-A	Lab Control Sample	Soluble	Solid	300.0	54463
LCSD 880-54463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54463
880-28880-5 MS	C-5, 2'	Soluble	Solid	300.0	54463

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

HPLC/IC (Continued)

Analysis Batch: 54515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-5 MSD	C-5, 2'	Soluble	Solid	300.0	54463

Analysis Batch: 54527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28880-15	C-15, 0-3'	Soluble	Solid	300.0	54461
880-28880-16	C-16, 4.1'	Soluble	Solid	300.0	54461
880-28880-17	C-17, 0-4.1'	Soluble	Solid	300.0	54461
MB 880-54461/1-A	Method Blank	Soluble	Solid	300.0	54461
LCS 880-54461/2-A	Lab Control Sample	Soluble	Solid	300.0	54461
LCSD 880-54461/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54461
880-28880-15 MS	C-15, 0-3'	Soluble	Solid	300.0	54461
880-28880-15 MSD	C-15, 0-3'	Soluble	Solid	300.0	54461

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-1, 2'

Date Collected: 05/24/23 08:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-1
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			5.01 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 15:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 00:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 19:30	CH	EET MID

Client Sample ID: C-2, 2'

Date Collected: 05/24/23 08:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-2
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			4.96 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 15:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 00:30	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 19:35	CH	EET MID

Client Sample ID: C-3, 2'

Date Collected: 05/24/23 08:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-3
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			5.02 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 15:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 19:41	CH	EET MID

Client Sample ID: C-4, 2'

Date Collected: 05/24/23 08:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 16:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-4, 2'

Date Collected: 05/24/23 08:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-4
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			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 01:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 19:46	CH	EET MID

Client Sample ID: C-5, 2'

Date Collected: 05/24/23 08:40
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 16:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 01:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 19:51	CH	EET MID

Client Sample ID: C-6, 2'

Date Collected: 05/24/23 08:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 16:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 01:56	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:07	CH	EET MID

Client Sample ID: C-7, 2'

Date Collected: 05/24/23 09:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 17:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 02:18	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-7, 2'

Lab Sample ID: 880-28880-7
Matrix: Solid
Date Collected: 05/24/23 09:00
Date Received: 05/30/23 08:51

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	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54515	05/31/23 20:12	CH	EET MID

Client Sample ID: C-8, 0-2'

Lab Sample ID: 880-28880-8
Matrix: Solid
Date Collected: 05/24/23 09:10
Date Received: 05/30/23 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 17:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	05/31/23 09:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54429	05/30/23 16:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54329	05/31/23 02:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:29	CH	EET MID

Client Sample ID: C-9 0-2'

Lab Sample ID: 880-28880-9
Matrix: Solid
Date Collected: 05/24/23 09:20
Date Received: 05/30/23 08:51

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	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 17:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 11:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54515	05/31/23 20:34	CH	EET MID

Client Sample ID: C-10 0-2'

Lab Sample ID: 880-28880-10
Matrix: Solid
Date Collected: 05/24/23 09:30
Date Received: 05/30/23 08:51

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	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 18:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 12:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:39	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-11 3'

Date Collected: 05/24/23 10:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 20:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 12:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:45	CH	EET MID

Client Sample ID: C-12, 4.1'

Date Collected: 05/24/23 10:10
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 20:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 13:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:50	CH	EET MID

Client Sample ID: C-13, 4.1'

Date Collected: 05/24/23 10:20
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 20:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 13:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 20:55	CH	EET MID

Client Sample ID: C-14, 0-3'

Date Collected: 05/24/23 10:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 21:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Client Sample ID: C-14, 0-3'
Date Collected: 05/24/23 10:30
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 13:53	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54463	05/31/23 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54515	05/31/23 21:01	CH	EET MID

Client Sample ID: C-15, 0-3'
Date Collected: 05/24/23 10:40
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 21:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 14:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54461	05/31/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54527	05/31/23 21:43	CH	EET MID

Client Sample ID: C-16, 4.1'
Date Collected: 05/24/23 10:50
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 21:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54461	05/31/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54527	05/31/23 21:59	CH	EET MID

Client Sample ID: C-17, 0-4.1'
Date Collected: 05/24/23 11:00
Date Received: 05/30/23 08:51

Lab Sample ID: 880-28880-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54508	05/31/23 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54640	06/03/23 22:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54818	06/05/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54466	06/02/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54453	05/31/23 09:15	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54532	06/01/23 14:58	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Job ID: 880-28880-1
Project/Site: Saldo Draw 13 SWD
SDG: 21-0100-20

Client Sample ID: C-17, 0-4.1'
Lab Sample ID: 880-28880-17

Date Collected: 05/24/23 11:00
Matrix: Solid

Date Received: 05/30/23 08:51

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	54461	05/31/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54527	05/31/23 22:05	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: 880-28880-1
Project/Site: Saldo Draw 13 SWD SDG: 21-0100-20

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-28880-1
Project/Site: Saldo Draw 13 SWD SDG: 21-0100-20

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: Saldo Draw 13 SWD

Job ID: 880-28880-1
SDG: 21-0100-20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28880-1	C-1, 2'	Solid	05/24/23 08:00	05/30/23 08:51
880-28880-2	C-2, 2'	Solid	05/24/23 08:10	05/30/23 08:51
880-28880-3	C-3, 2'	Solid	05/24/23 08:20	05/30/23 08:51
880-28880-4	C-4, 2'	Solid	05/24/23 08:30	05/30/23 08:51
880-28880-5	C-5, 2'	Solid	05/24/23 08:40	05/30/23 08:51
880-28880-6	C-6, 2'	Solid	05/24/23 08:50	05/30/23 08:51
880-28880-7	C-7, 2'	Solid	05/24/23 09:00	05/30/23 08:51
880-28880-8	C-8, 0-2'	Solid	05/24/23 09:10	05/30/23 08:51
880-28880-9	C-9 0-2'	Solid	05/24/23 09:20	05/30/23 08:51
880-28880-10	C-10 0-2'	Solid	05/24/23 09:30	05/30/23 08:51
880-28880-11	C-11 3'	Solid	05/24/23 10:00	05/30/23 08:51
880-28880-12	C-12, 4.1'	Solid	05/24/23 10:10	05/30/23 08:51
880-28880-13	C-13, 4.1'	Solid	05/24/23 10:20	05/30/23 08:51
880-28880-14	C-14, 0-3'	Solid	05/24/23 10:30	05/30/23 08:51
880-28880-15	C-15, 0-3'	Solid	05/24/23 10:40	05/30/23 08:51
880-28880-16	C-16, 4.1'	Solid	05/24/23 10:50	05/30/23 08:51
880-28880-17	C-17, 0-4.1'	Solid	05/24/23 11:00	05/30/23 08:51

~~2RP-5888~~ No. 3000

CHAIN-OF-CUSTODY

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

DATE 5-26-23 PAGE 1 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Salado Draw 13 SWD

LAI PROJECT # 21-0100-20 COLLECTOR KG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State Mnt/NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	BTEX	TRPH 418.1	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260	SVOC 8270	PAH 8270	8081 PESTICIDES	8082 PCBS	TCLP - METALS (RCRA)	TCLP - PEST	TOTAL METALS (RCRA)	LEAD - TOTAL	RCI	TDS	pH	CHLORIDE	FIELD NOTES
C-1, 2'		5.24.23	0800	S	1				X		X	X	X	X	X													702
C-2, 2'			0810																									
C-3, 2'			0820																									
C-4, 2'			0830																									
C-5, 2'			0840																									
C-6, 2'			0850																									
C-7, 2'			0900																									
C-8, 0-2'			0910																									
C-9, 0-2'			0920																									
C-10, 0-2'			0930																									
C-11, 3'			1000																									
C-12, 4.1'			1010																									
C-13, 4.1'			1020																									
C-14, 0-3'			1030																									
C-15, 0-3'			1040																									
TOTAL																												

880-28880 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	5/30/23 0851	
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 -11/-11.3 THERM# IR2 -36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

28880

No. 3076

CHA USTODY

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

Data Reported to

DATE 5-26-23 2 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Salado Draw 13 SWD

LAI PROJECT # 21-0100-20 COLLECTOR KG

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State
Mnt / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐ HERB ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐ D W 200.8 ☐	OTHER LIST ☐	RCI ☐ TOX ☐	TCLP ☐	TDS ☐ TSS ☐	FLASHPOINT ☐	pH ☐ % MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-16, 4.1'		5-24-23	1050	S	1				X		X		X	X	X																					X			
C-17, 0-4.1'		1	1100	1	1				X		X		X	X	X																					X			
TOTAL																																								

RELINQUISHED BY (Signature) _____ DATE/TIME 5/30/23 0851 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: 880-28880-1
SDG Number: 21-0100-20

Login Number: 28880
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 6/22/2023 11:09:18 AM

JOB DESCRIPTION

SD-13 SWD
SDG NUMBER 21-0100-20

JOB NUMBER

880-29624-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

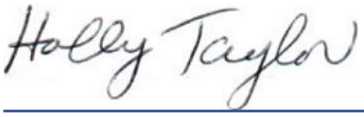
Eurofins Midland

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



Generated
6/22/2023 11:09:18 AM

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

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Laboratory Job ID: 880-29624-1
SDG: 21-0100-20

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-29624-1
Project/Site: SD-13 SWD SDG: 21-0100-20

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Job ID: 880-29624-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-29624-1

Receipt
The samples were received on 6/15/2023 4:00 PM. 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 4.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-18, 2' (880-29624-1) and C-19, 0-2' (880-29624-2).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-55662 and analytical batch 880-55746 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-55662/2-A) and (LCSD 880-55662/3-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Client Sample ID: C-18, 2'

Lab Sample ID: 880-29624-1
Matrix: Solid
Date Collected: 06/14/23 12:00
Date Received: 06/15/23 16:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/23 14:05	06/22/23 03:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/23 14:05	06/22/23 03:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/23 14:05	06/22/23 03:18	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/23 14:05	06/22/23 03:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/21/23 14:05	06/22/23 03:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/23 14:05	06/22/23 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*06/21/23 14:05*	*06/22/23 03:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/21/23 14:05*	*06/22/23 03:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/23 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/19/23 12:48	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	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 18:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*06/16/23 09:44*	*06/17/23 18:21*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*06/16/23 09:44*	*06/17/23 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		4.96		mg/Kg			06/16/23 15:41	1

Client Sample ID: C-19, 0-2'

Lab Sample ID: 880-29624-2
Matrix: Solid
Date Collected: 06/14/23 12:05
Date Received: 06/15/23 16:00

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/23 14:05	06/22/23 03:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/23 14:05	06/22/23 03:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/23 14:05	06/22/23 03:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/21/23 14:05	06/22/23 03:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/21/23 14:05	06/22/23 03:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/21/23 14:05	06/22/23 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*06/21/23 14:05*	*06/22/23 03:39*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/21/23 14:05*	*06/22/23 03:39*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Client Sample ID: C-19, 0-2'

Date Collected: 06/14/23 12:05
Date Received: 06/15/23 16:00

Lab Sample ID: 880-29624-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/22/23 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/19/23 12:48	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	<49.8	U	49.8		mg/Kg		06/16/23 09:44	06/17/23 18:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/23 09:44	06/17/23 18:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/23 09:44	06/17/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*06/16/23 09:44*	*06/17/23 18:45*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*06/16/23 09:44*	*06/17/23 18:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2160**		25.0		mg/Kg			06/16/23 15:47	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-29624-1	C-18, 2'	85	100
880-29624-2	C-19, 0-2'	85	102
LCS 880-56022/1-A	Lab Control Sample	94	95
LCSD 880-56022/2-A	Lab Control Sample Dup	97	87
MB 880-55972/5-A	Method Blank	88	95
MB 880-56022/5-A	Method Blank	96	107

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-29624-1	C-18, 2'	127	116
880-29624-2	C-19, 0-2'	118	103
LCS 880-55662/2-A	Lab Control Sample	145 S1+	132 S1+
LCSD 880-55662/3-A	Lab Control Sample Dup	146 S1+	131 S1+
MB 880-55662/1-A	Method Blank	149 S1+	139 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55972/5-A
Matrix: Solid
Analysis Batch: 55963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55972

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/23 09:51	06/21/23 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/23 09:51	06/21/23 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/23 09:51	06/21/23 14:28	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/23 09:51	06/21/23 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/23 09:51	06/21/23 14:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/23 09:51	06/21/23 14:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*06/21/23 09:51*	*06/21/23 14:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/21/23 09:51*	*06/21/23 14:28*	*1*

Lab Sample ID: MB 880-56022/5-A
Matrix: Solid
Analysis Batch: 55963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56022

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/23 14:05	06/22/23 02:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/23 14:05	06/22/23 02:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/23 14:05	06/22/23 02:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/23 14:05	06/22/23 02:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/23 14:05	06/22/23 02:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/23 14:05	06/22/23 02:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/21/23 14:05*	*06/22/23 02:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/21/23 14:05*	*06/22/23 02:29*	*1*

Lab Sample ID: LCS 880-56022/1-A
Matrix: Solid
Analysis Batch: 55963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56022

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1147		mg/Kg		115	70 - 130		
Toluene			0.100	0.1112		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.08671		mg/Kg		87	70 - 130		
m,p-Xylenes			0.200	0.1762		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08673		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-56022/2-A
Matrix: Solid
Analysis Batch: 55963

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56022

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1187		mg/Kg		119	70 - 130	3	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

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

Lab Sample ID: LCSD 880-56022/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55963 — **Prep Batch: 56022**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1259		mg/Kg		126	70 - 130	12	35
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130	15	35
m,p-Xylenes			0.200	0.2012		mg/Kg		101	70 - 130	13	35
o-Xylene			0.100	0.09855		mg/Kg		99	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

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

Lab Sample ID: MB 880-55662/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55746 — **Prep Batch: 55662**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 09:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/23 09:44	06/17/23 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*06/16/23 09:44*	*06/17/23 09:14*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*06/16/23 09:44*	*06/17/23 09:14*	*1*

Lab Sample ID: LCS 880-55662/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55746 — **Prep Batch: 55662**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	976.9		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1168		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-55662/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55746 — **Prep Batch: 55662**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1189		mg/Kg		119	70 - 130	2	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

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

Lab Sample ID: LCSD 880-55662/3-A
Matrix: Solid
Analysis Batch: 55746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55662

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	146	S1+	70 - 130
o-Terphenyl (Surr)	131	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55675/1-A
Matrix: Solid
Analysis Batch: 55703

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			06/16/23 14:28	1

Lab Sample ID: LCS 880-55675/2-A
Matrix: Solid
Analysis Batch: 55703

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-55675/3-A
Matrix: Solid
Analysis Batch: 55703

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	254.8		mg/Kg		102	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

GC VOA

Analysis Batch: 55963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	8021B	56022
880-29624-2	C-19, 0-2'	Total/NA	Solid	8021B	56022
MB 880-55972/5-A	Method Blank	Total/NA	Solid	8021B	55972
MB 880-56022/5-A	Method Blank	Total/NA	Solid	8021B	56022
LCS 880-56022/1-A	Lab Control Sample	Total/NA	Solid	8021B	56022
LCSD 880-56022/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56022

Prep Batch: 55972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55972/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 56022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	5035	
880-29624-2	C-19, 0-2'	Total/NA	Solid	5035	
MB 880-56022/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56022/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56022/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 56066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	Total BTEX	
880-29624-2	C-19, 0-2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	8015NM Prep	
880-29624-2	C-19, 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-55662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	8015B NM	55662
880-29624-2	C-19, 0-2'	Total/NA	Solid	8015B NM	55662
MB 880-55662/1-A	Method Blank	Total/NA	Solid	8015B NM	55662
LCS 880-55662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55662
LCSD 880-55662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55662

Analysis Batch: 55831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Total/NA	Solid	8015 NM	
880-29624-2	C-19, 0-2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

HPLC/IC (Continued)

Leach Batch: 55675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-2	C-19, 0-2'	Soluble	Solid	DI Leach	
MB 880-55675/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55675/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55675/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 55703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29624-1	C-18, 2'	Soluble	Solid	300.0	55675
880-29624-2	C-19, 0-2'	Soluble	Solid	300.0	55675
MB 880-55675/1-A	Method Blank	Soluble	Solid	300.0	55675
LCS 880-55675/2-A	Lab Control Sample	Soluble	Solid	300.0	55675
LCSD 880-55675/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55675

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Client Sample ID: C-18, 2'

Date Collected: 06/14/23 12:00
Date Received: 06/15/23 16:00

Lab Sample ID: 880-29624-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	56022	06/21/23 14:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55963	06/22/23 03:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56066	06/22/23 11:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55831	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55662	06/16/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	55675	06/16/23 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	55703	06/16/23 15:41	CH	EET MID

Client Sample ID: C-19, 0-2'

Date Collected: 06/14/23 12:05
Date Received: 06/15/23 16:00

Lab Sample ID: 880-29624-2

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			4.96 g	5 mL	56022	06/21/23 14:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55963	06/22/23 03:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			56066	06/22/23 11:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55831	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55662	06/16/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	55675	06/16/23 10:22	SMC	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	55703	06/16/23 15:47	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: 880-29624-1
Project/Site: SD-13 SWD SDG: 21-0100-20

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

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: SD-13 SWD

Job ID: 880-29624-1
SDG: 21-0100-20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29624-1	C-18, 2'	Solid	06/14/23 12:00	06/15/23 16:00
880-29624-2	C-19, 0-2'	Solid	06/14/23 12:05	06/15/23 16:00

29405 29624 No. 3084

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 6-15-23 PAGE 1 OF 1
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME SD-13 SWD
LAI PROJECT # 21-0100-20 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 BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL MOD 8015 ☐	OIL MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-18, 2'		6-14-23	1206	S	1				X		X		X	X	X													X	202
C-19, 0-2'		6-14-23	1205	S	1				X		X		X	X	X													X	

880-29624 Chain of Custody

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME 6/15/23 1600	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 4.9/4.6 THERM# IR8-36
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-29624-1
SDG Number: 21-0100-20

Login Number: 29624
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 1/2/2024 9:18:13 AM

JOB DESCRIPTION

Salado Draw 13 CWD
23-0102-04

JOB NUMBER

880-37326-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

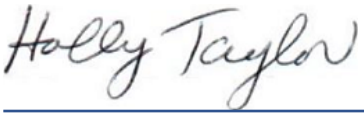
Eurofins Midland

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



Generated
1/2/2024 9:18:13 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 13 CWD

Laboratory Job ID: 880-37326-1
SDG: 23-0102-04

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-37326-1
Project/Site: Salado Draw 13 CWD SDG: 23-0102-04

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
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.

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: 880-37326-1
Project: Salado Draw 13 CWD

Job ID: 880-37326-1 Eurofins Midland

Job Narrative
880-37326-1

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 12/28/2023 8:37 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 3.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-6 4.1' (880-37326-1), C-7 4.1' (880-37326-2), C-8A 0-4.1' (880-37326-3), C-11 4.1' (880-37326-4), C-15A 0-3' (880-37326-5), C-17A 0-4.1 (880-37326-6) and C-19A 0-21 (880-37326-7).

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-69859 and analytical batch 880-69866 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-69859/2-A) and (MB 880-69859/1-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-6 4.1'

Lab Sample ID: 880-37326-1
Matrix: Solid
Date Collected: 12/18/23 12:00
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/29/23 14:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 14:03	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/28/23 10:18	12/29/23 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 14:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/23 10:18	12/29/23 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/28/23 10:18*	*12/29/23 14:03*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/28/23 10:18*	*12/29/23 14:03*	*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			12/29/23 14:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			12/28/23 14:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- F1	50.2		mg/Kg		12/28/23 09:22	12/28/23 14:43	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		12/28/23 09:22	12/28/23 14:43	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		12/28/23 09:22	12/28/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*12/28/23 09:22*	*12/28/23 14:43*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*12/28/23 09:22*	*12/28/23 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		25.3		mg/Kg			12/28/23 11:59	5

Client Sample ID: C-7 4.1'

Lab Sample ID: 880-37326-2
Matrix: Solid
Date Collected: 12/18/23 12:15
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/29/23 16:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/28/23 10:18	12/29/23 16:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/28/23 10:18	12/29/23 16:47	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		12/28/23 10:18	12/29/23 16:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/28/23 10:18	12/29/23 16:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/28/23 10:18	12/29/23 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/28/23 10:18*	*12/29/23 16:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*12/28/23 10:18*	*12/29/23 16:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-7 4.1'

Date Collected: 12/18/23 12:15
Date Received: 12/28/23 08:37

Lab Sample ID: 880-37326-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			12/29/23 16:47	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			12/28/23 15:47	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		12/28/23 09:22	12/28/23 15:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/28/23 09:22	12/28/23 15:47	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/28/23 09:22	12/28/23 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*12/28/23 09:22*	*12/28/23 15:47*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*12/28/23 09:22*	*12/28/23 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		5.00		mg/Kg			12/28/23 12:05	1

Client Sample ID: C-8A 0-4.1'

Date Collected: 12/18/23 12:30
Date Received: 12/28/23 08:37

Lab Sample ID: 880-37326-3
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		12/28/23 10:18	12/29/23 17:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/29/23 17:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/29/23 17:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/28/23 10:18	12/29/23 17:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/29/23 17:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/23 10:18	12/29/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/28/23 10:18*	*12/29/23 17:07*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*12/28/23 10:18*	*12/29/23 17:07*	*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			12/29/23 17:07	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			12/28/23 16:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *-	50.5		mg/Kg		12/28/23 09:22	12/28/23 16:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/28/23 09:22	12/28/23 16:09	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-8A 0-4.1'

Lab Sample ID: 880-37326-3
Matrix: Solid
Date Collected: 12/18/23 12:30
Date Received: 12/28/23 08:37

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)	<50.5	U	50.5		mg/Kg		12/28/23 09:22	12/28/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:09*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82.4**		5.04		mg/Kg			12/28/23 12:20	1

Client Sample ID: C-11 4.1'

Lab Sample ID: 880-37326-4
Matrix: Solid
Date Collected: 12/18/23 14:00
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/29/23 17:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/28/23 10:18	12/29/23 17:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/28/23 10:18	12/29/23 17:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		12/28/23 10:18	12/29/23 17:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/28/23 10:18	12/29/23 17:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/28/23 10:18	12/29/23 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*12/28/23 10:18*	*12/29/23 17:28*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/28/23 10:18*	*12/29/23 17:28*	*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			12/29/23 17:28	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			12/28/23 16:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7		mg/Kg		12/28/23 09:22	12/28/23 16:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/28/23 09:22	12/28/23 16:33	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/28/23 09:22	12/28/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:33*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		4.99		mg/Kg			12/28/23 12:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-15A 0-3'

Lab Sample ID: 880-37326-5
Matrix: Solid
Date Collected: 12/18/23 14:15
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/30/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:12	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		12/28/23 10:18	12/30/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/23 10:18	12/30/23 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:12*	*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			12/30/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/23 16:57	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		12/28/23 09:22	12/28/23 16:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/28/23 09:22	12/28/23 16:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/28/23 09:22	12/28/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:57*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*12/28/23 09:22*	*12/28/23 16:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		4.98		mg/Kg			12/28/23 12:46	1

Client Sample ID: C-17A 0-4.1

Lab Sample ID: 880-37326-6
Matrix: Solid
Date Collected: 12/18/23 14:30
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/30/23 11:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/30/23 11:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/30/23 11:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/28/23 10:18	12/30/23 11:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/28/23 10:18	12/30/23 11:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/28/23 10:18	12/30/23 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:33*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-17A 0-4.1

Lab Sample ID: 880-37326-6
Matrix: Solid
Date Collected: 12/18/23 14:30
Date Received: 12/28/23 08:37

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			12/30/23 11:33	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			12/28/23 17:23	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		12/28/23 09:22	12/28/23 17:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/28/23 09:22	12/28/23 17:23	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/28/23 09:22	12/28/23 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*12/28/23 09:22*	*12/28/23 17:23*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*12/28/23 09:22*	*12/28/23 17:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		5.01		mg/Kg			12/28/23 12:51	1

Client Sample ID: C-19A 0-21

Lab Sample ID: 880-37326-7
Matrix: Solid
Date Collected: 12/19/23 12:40
Date Received: 12/28/23 08:37

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		12/28/23 10:18	12/30/23 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:53	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		12/28/23 10:18	12/30/23 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/30/23 11:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/28/23 10:18	12/30/23 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:53*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*12/28/23 10:18*	*12/30/23 11:53*	*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			12/30/23 11:53	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			12/28/23 17:47	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		12/28/23 09:22	12/28/23 17:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/28/23 09:22	12/28/23 17:47	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-19A 0-21
Date Collected: 12/19/23 12:40
Date Received: 12/28/23 08:37

Lab Sample ID: 880-37326-7
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)	<50.1	U	50.1		mg/Kg		12/28/23 09:22	12/28/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*12/28/23 09:22*	*12/28/23 17:47*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*12/28/23 09:22*	*12/28/23 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.1**		5.02		mg/Kg			12/28/23 12:56	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37326-1	C-6 4.1'	105	105
880-37326-2	C-7 4.1'	90	102
880-37326-3	C-8A 0-4.1'	115	111
880-37326-4	C-11 4.1'	113	108
880-37326-5	C-15A 0-3'	98	101
880-37326-6	C-17A 0-4.1	111	103
880-37326-7	C-19A 0-21	119	112
LCS 880-69890/1-A	Lab Control Sample	100	104
LCSD 880-69890/2-A	Lab Control Sample Dup	109	105
MB 880-69890/5-A	Method Blank	110	114

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37326-1	C-6 4.1'	98	104
880-37326-1 MS	C-6 4.1'	95	87
880-37326-1 MSD	C-6 4.1'	97	87
880-37326-2	C-7 4.1'	96	102
880-37326-3	C-8A 0-4.1'	96	103
880-37326-4	C-11 4.1'	85	95
880-37326-5	C-15A 0-3'	99	104
880-37326-6	C-17A 0-4.1	85	91
880-37326-7	C-19A 0-21	95	98
LCS 880-69859/2-A	Lab Control Sample	123	141 S1+
LCSD 880-69859/3-A	Lab Control Sample Dup	101	110
MB 880-69859/1-A	Method Blank	43 S1-	54 S1-

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69890/5-A
Matrix: Solid
Analysis Batch: 69938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69890

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 11:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/28/23 10:18	12/29/23 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/23 10:18	12/29/23 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/28/23 10:18	12/29/23 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/28/23 10:18*	*12/29/23 11:11*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*12/28/23 10:18*	*12/29/23 11:11*	*1*

Lab Sample ID: LCS 880-69890/1-A
Matrix: Solid
Analysis Batch: 69938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08884		mg/Kg		89	70 - 130		
Toluene			0.100	0.08167		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08108		mg/Kg		81	70 - 130		
m,p-Xylenes			0.200	0.1626		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08895		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-69890/2-A
Matrix: Solid
Analysis Batch: 69938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09108		mg/Kg		91	70 - 130	2	35
Toluene			0.100	0.08826		mg/Kg		88	70 - 130	8	35
Ethylbenzene			0.100	0.08320		mg/Kg		83	70 - 130	3	35
m,p-Xylenes			0.200	0.1607		mg/Kg		80	70 - 130	1	35
o-Xylene			0.100	0.09966		mg/Kg		100	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

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

Lab Sample ID: MB 880-69859/1-A
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69859

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		12/28/23 09:22	12/28/23 12:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/28/23 09:22	12/28/23 12:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/28/23 09:22	12/28/23 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*43*	*S1-*	*70 - 130*	*12/28/23 09:22*	*12/28/23 12:09*	*1*
o-Terphenyl (Surr)	*54*	*S1-*	*70 - 130*	*12/28/23 09:22*	*12/28/23 12:09*	*1*

Lab Sample ID: LCS 880-69859/2-A
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	783.4		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*123*		*70 - 130*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-69859/3-A
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69859

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	645.4	*-	mg/Kg		65	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	851.6		mg/Kg		85	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*101*		*70 - 130*
o-Terphenyl (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-37326-1 MS
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: C-6 4.1'
Prep Type: Total/NA
Prep Batch: 69859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- F1	995	715.2		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	995	732.7		mg/Kg		74	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

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

Lab Sample ID: 880-37326-1 MS
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: C-6 4.1'
Prep Type: Total/NA
Prep Batch: 69859

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: 880-37326-1 MSD
Matrix: Solid
Analysis Batch: 69866

Client Sample ID: C-6 4.1'
Prep Type: Total/NA
Prep Batch: 69859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- F1	995	730.2		mg/Kg		72	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	995	751.8		mg/Kg		76	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	97		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-69849/1-A
Matrix: Solid
Analysis Batch: 69902

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			12/28/23 10:37	1

Lab Sample ID: LCS 880-69849/2-A
Matrix: Solid
Analysis Batch: 69902

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-69849/3-A
Matrix: Solid
Analysis Batch: 69902

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	235.3		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-37326-2 MS
Matrix: Solid
Analysis Batch: 69902

Client Sample ID: C-7 4.1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	412		250	651.2		mg/Kg		96	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-37326-2 MSD
Matrix: Solid
Analysis Batch: 69902

Client Sample ID: C-7 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	412		250	650.5		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

GC VOA

Prep Batch: 69890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	5035	
880-37326-2	C-7 4.1'	Total/NA	Solid	5035	
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	5035	
880-37326-4	C-11 4.1'	Total/NA	Solid	5035	
880-37326-5	C-15A 0-3'	Total/NA	Solid	5035	
880-37326-6	C-17A 0-4.1	Total/NA	Solid	5035	
880-37326-7	C-19A 0-21	Total/NA	Solid	5035	
MB 880-69890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-69890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-69890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 69938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	8021B	69890
880-37326-2	C-7 4.1'	Total/NA	Solid	8021B	69890
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	8021B	69890
880-37326-4	C-11 4.1'	Total/NA	Solid	8021B	69890
880-37326-5	C-15A 0-3'	Total/NA	Solid	8021B	69890
880-37326-6	C-17A 0-4.1	Total/NA	Solid	8021B	69890
880-37326-7	C-19A 0-21	Total/NA	Solid	8021B	69890
MB 880-69890/5-A	Method Blank	Total/NA	Solid	8021B	69890
LCS 880-69890/1-A	Lab Control Sample	Total/NA	Solid	8021B	69890
LCSD 880-69890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	69890

Analysis Batch: 69994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	Total BTEX	
880-37326-2	C-7 4.1'	Total/NA	Solid	Total BTEX	
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	Total BTEX	
880-37326-4	C-11 4.1'	Total/NA	Solid	Total BTEX	
880-37326-5	C-15A 0-3'	Total/NA	Solid	Total BTEX	
880-37326-6	C-17A 0-4.1	Total/NA	Solid	Total BTEX	
880-37326-7	C-19A 0-21	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 69859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	8015NM Prep	
880-37326-2	C-7 4.1'	Total/NA	Solid	8015NM Prep	
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	8015NM Prep	
880-37326-4	C-11 4.1'	Total/NA	Solid	8015NM Prep	
880-37326-5	C-15A 0-3'	Total/NA	Solid	8015NM Prep	
880-37326-6	C-17A 0-4.1	Total/NA	Solid	8015NM Prep	
880-37326-7	C-19A 0-21	Total/NA	Solid	8015NM Prep	
MB 880-69859/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69859/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37326-1 MS	C-6 4.1'	Total/NA	Solid	8015NM Prep	
880-37326-1 MSD	C-6 4.1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

GC Semi VOA

Analysis Batch: 69866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	8015B NM	69859
880-37326-2	C-7 4.1'	Total/NA	Solid	8015B NM	69859
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	8015B NM	69859
880-37326-4	C-11 4.1'	Total/NA	Solid	8015B NM	69859
880-37326-5	C-15A 0-3'	Total/NA	Solid	8015B NM	69859
880-37326-6	C-17A 0-4.1	Total/NA	Solid	8015B NM	69859
880-37326-7	C-19A 0-21	Total/NA	Solid	8015B NM	69859
MB 880-69859/1-A	Method Blank	Total/NA	Solid	8015B NM	69859
LCS 880-69859/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69859
LCSD 880-69859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69859
880-37326-1 MS	C-6 4.1'	Total/NA	Solid	8015B NM	69859
880-37326-1 MSD	C-6 4.1'	Total/NA	Solid	8015B NM	69859

Analysis Batch: 69973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Total/NA	Solid	8015 NM	
880-37326-2	C-7 4.1'	Total/NA	Solid	8015 NM	
880-37326-3	C-8A 0-4.1'	Total/NA	Solid	8015 NM	
880-37326-4	C-11 4.1'	Total/NA	Solid	8015 NM	
880-37326-5	C-15A 0-3'	Total/NA	Solid	8015 NM	
880-37326-6	C-17A 0-4.1	Total/NA	Solid	8015 NM	
880-37326-7	C-19A 0-21	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 69849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Soluble	Solid	DI Leach	
880-37326-2	C-7 4.1'	Soluble	Solid	DI Leach	
880-37326-3	C-8A 0-4.1'	Soluble	Solid	DI Leach	
880-37326-4	C-11 4.1'	Soluble	Solid	DI Leach	
880-37326-5	C-15A 0-3'	Soluble	Solid	DI Leach	
880-37326-6	C-17A 0-4.1	Soluble	Solid	DI Leach	
880-37326-7	C-19A 0-21	Soluble	Solid	DI Leach	
MB 880-69849/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-69849/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-69849/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37326-2 MS	C-7 4.1'	Soluble	Solid	DI Leach	
880-37326-2 MSD	C-7 4.1'	Soluble	Solid	DI Leach	

Analysis Batch: 69902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37326-1	C-6 4.1'	Soluble	Solid	300.0	69849
880-37326-2	C-7 4.1'	Soluble	Solid	300.0	69849
880-37326-3	C-8A 0-4.1'	Soluble	Solid	300.0	69849
880-37326-4	C-11 4.1'	Soluble	Solid	300.0	69849
880-37326-5	C-15A 0-3'	Soluble	Solid	300.0	69849
880-37326-6	C-17A 0-4.1	Soluble	Solid	300.0	69849
880-37326-7	C-19A 0-21	Soluble	Solid	300.0	69849
MB 880-69849/1-A	Method Blank	Soluble	Solid	300.0	69849
LCS 880-69849/2-A	Lab Control Sample	Soluble	Solid	300.0	69849

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-37326-1
Project/Site: Salado Draw 13 CWD SDG: 23-0102-04

HPLC/IC (Continued)

Analysis Batch: 69902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-69849/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	69849
880-37326-2 MS	C-7 4.1'	Soluble	Solid	300.0	69849
880-37326-2 MSD	C-7 4.1'	Soluble	Solid	300.0	69849

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-6 4.1'

Lab Sample ID: 880-37326-1
Matrix: Solid
Date Collected: 12/18/23 12:00
Date Received: 12/28/23 08:37

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	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/29/23 14:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/29/23 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 14:43	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		5			69902	12/28/23 11:59	CH	EET MID

Client Sample ID: C-7 4.1'

Lab Sample ID: 880-37326-2
Matrix: Solid
Date Collected: 12/18/23 12:15
Date Received: 12/28/23 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/29/23 16:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/29/23 16:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 15:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 15:47	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:05	CH	EET MID

Client Sample ID: C-8A 0-4.1'

Lab Sample ID: 880-37326-3
Matrix: Solid
Date Collected: 12/18/23 12:30
Date Received: 12/28/23 08:37

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	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/29/23 17:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/29/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 16:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 16:09	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:20	CH	EET MID

Client Sample ID: C-11 4.1'

Lab Sample ID: 880-37326-4
Matrix: Solid
Date Collected: 12/18/23 14:00
Date Received: 12/28/23 08:37

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	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/29/23 17:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/29/23 17:28	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-11 4.1'

Lab Sample ID: 880-37326-4
Matrix: Solid
Date Collected: 12/18/23 14:00
Date Received: 12/28/23 08:37

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			69973	12/28/23 16:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 16:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:25	CH	EET MID

Client Sample ID: C-15A 0-3'

Lab Sample ID: 880-37326-5
Matrix: Solid
Date Collected: 12/18/23 14:15
Date Received: 12/28/23 08:37

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	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/30/23 11:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/30/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 16:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:46	CH	EET MID

Client Sample ID: C-17A 0-4.1

Lab Sample ID: 880-37326-6
Matrix: Solid
Date Collected: 12/18/23 14:30
Date Received: 12/28/23 08:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/30/23 11:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/30/23 11:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 17:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 17:23	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:51	CH	EET MID

Client Sample ID: C-19A 0-21

Lab Sample ID: 880-37326-7
Matrix: Solid
Date Collected: 12/19/23 12:40
Date Received: 12/28/23 08:37

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	69890	12/28/23 10:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69938	12/30/23 11:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69994	12/30/23 11:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			69973	12/28/23 17:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	69859	12/28/23 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69866	12/28/23 17:47	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Client Sample ID: C-19A 0-21

Date Collected: 12/19/23 12:40
Date Received: 12/28/23 08:37

Lab Sample ID: 880-37326-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	69849	12/28/23 09:30	CH	EET MID
Soluble	Analysis	300.0		1			69902	12/28/23 12:56	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: 880-37326-1
Project/Site: Salado Draw 13 CWD SDG: 23-0102-04

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Salado Draw 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

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 13 CWD

Job ID: 880-37326-1
SDG: 23-0102-04

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37326-1	C-6 4.1'	Solid	12/18/23 12:00	12/28/23 08:37
880-37326-2	C-7 4.1'	Solid	12/18/23 12:15	12/28/23 08:37
880-37326-3	C-8A 0-4.1'	Solid	12/18/23 12:30	12/28/23 08:37
880-37326-4	C-11 4.1'	Solid	12/18/23 14:00	12/28/23 08:37
880-37326-5	C-15A 0-3'	Solid	12/18/23 14:15	12/28/23 08:37
880-37326-6	C-17A 0-4.1	Solid	12/18/23 14:30	12/28/23 08:37
880-37326-7	C-19A 0-21	Solid	12/19/23 12:40	12/28/23 08:37

37326 No. 3215

CHAIN-OF-CUSTODY

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

DATE 12/28/23 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME SALADO DRAW 13 CVD

LAI PROJECT # 23-8102-04 COLLECTOR: STAN BATES

Data Reported to ROBERT NELSON / MARK 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 ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	FIELD NOTES
C-6 4.1'		12/18/23	12:00	S	1				X		
C-7 4.1'		12/18/23	12:15	S	1						
C-8A 0-4.1'		12/18/23	12:30	S	1						
C-11 4.1'		12/18/23	2:00	S	1						
C-15A 0-3'		12/18/23	2:15	S	1						
C-17A 0-4.1		12/18/23	2:30	S	1						
C-19A 0-21		12/19/23	12:40	S	1						

TOTAL 7

RELINQUISHED BY (Signature) Daniel Rhyne DATE/TIME 12/29/23 837 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

880-37326 Chain of Custody

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.4 | 3.8 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-37326-1
SDG Number: 23-0102-04

Login Number: 37326
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 F

Photographic Documentation

Chloride precipate related to the release on the pad near the SWD, viewing to the southwest.

Standing water from the release inside of the lined SWD containment, viewing to the northwest.

Chloride precipitate is related to the release on the pad near the SWD, viewing to the south.

Excavated area on the pad, viewing to the southeast.

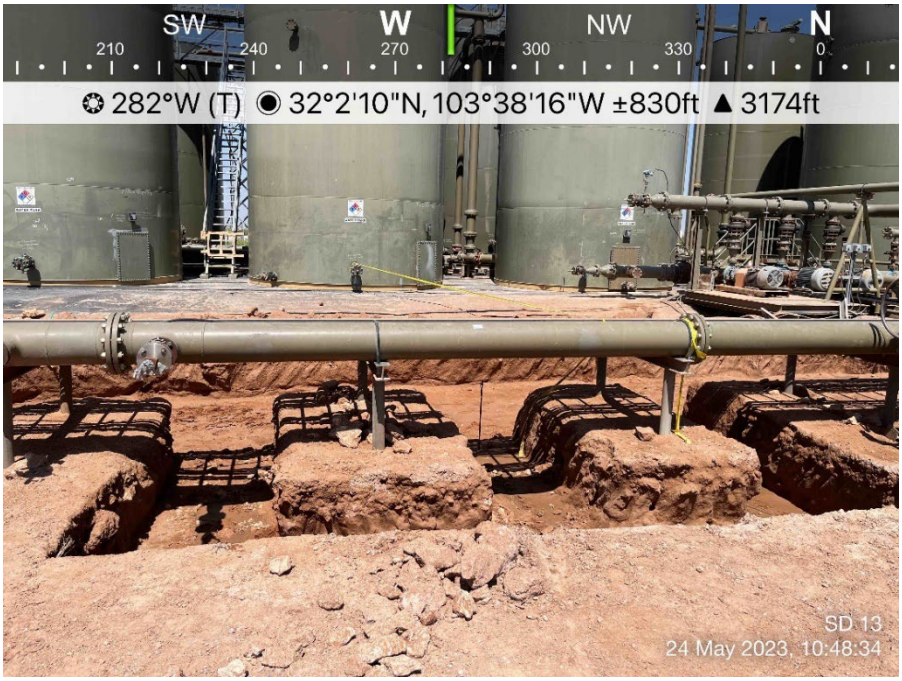
Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the north.

Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the east.

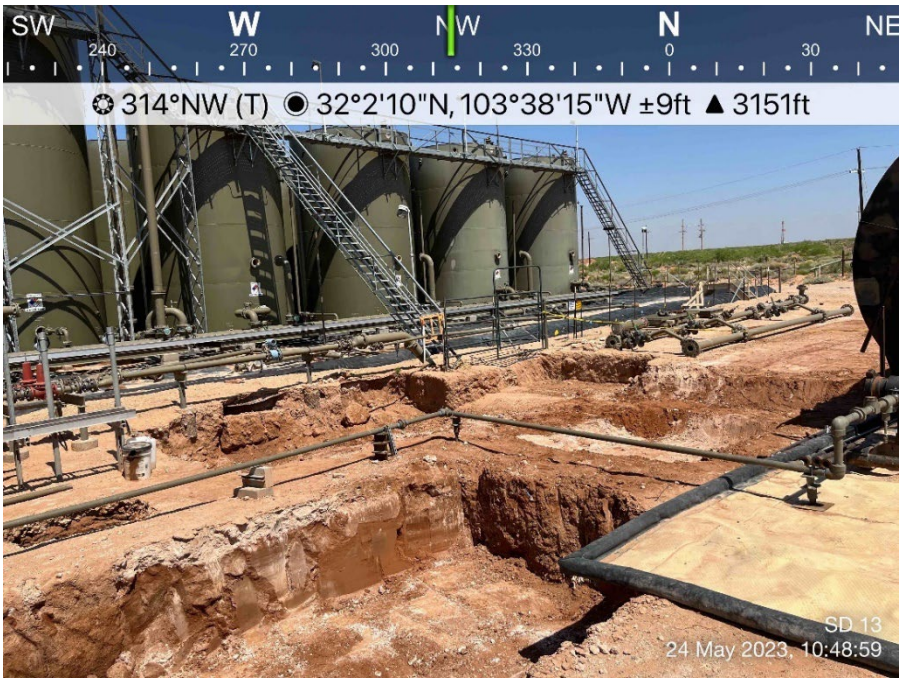
Excavated area on the pad, viewing to the south.



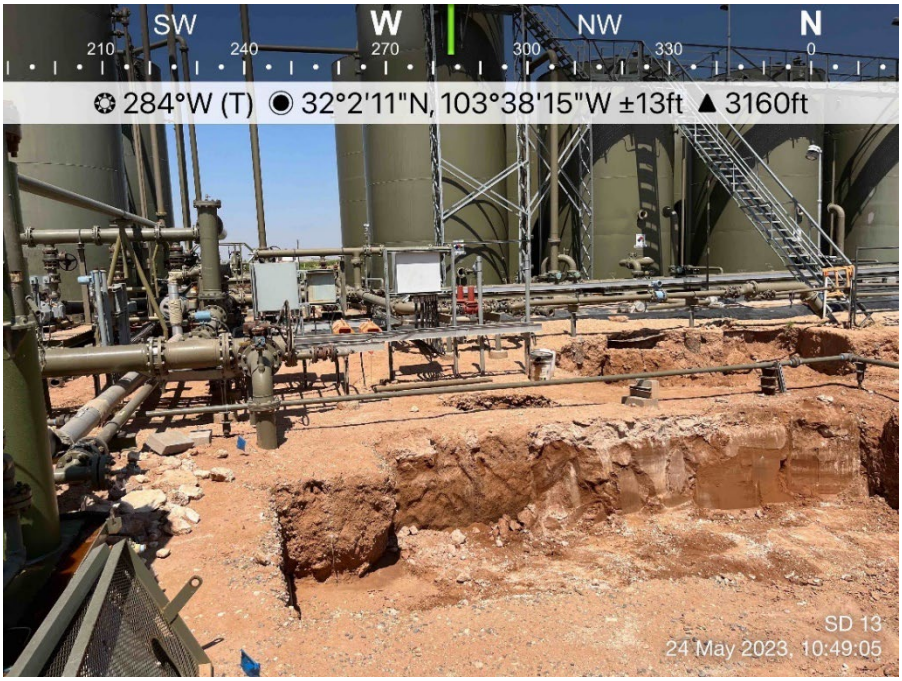
Excavated area on the pad, viewing to the west.

Excavated area on the pad, viewing to the northwest.

Excavated area on the pad, viewing to the northwest.



Excavated area on the pad, viewing to the northwest.



Excavated area on the pad, viewing to the west.

Excavated area on the pad, viewing to the north.

Excavated area on the pad, viewing to the northeast.

Excavated area on the pad, viewing to the northeast.

Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the south.

Excavated area on the pad, viewing to the southwest.

Excavated area on the pad, viewing to the south.

Excavated area on the pad, viewing to the west.

Excavated area on the pad, viewing to the southwest.

Excavated area on the pad, viewing to the southwest.

Excavated area on the pad, viewing to the southwest.

Excavated area on the pad, viewing to the southwest.

Excavated area on the pad, viewing to the north.

Excavated area on the pad, viewing to the south.

Excavated area on the pad, viewing to the south.

Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the north.

Backfilled excavation, viewing to the northwest.

Backfilled excavation, viewing to the southwest.

Backfilled excavation, viewing to the south.

Backfilled excavation, viewing to the south.

Backfilled excavation, viewing to the west.

Backfilled excavation, viewing to the west.

Backfilled excavation, viewing to the west.

Backfilled excavation, viewing to the east.

Backfilled excavation, viewing to the north.

Backfilled excavation, viewing to the north.

Backfilled excavation, viewing to the east.

Backfilled excavation, viewing to the north.

Backfilled excavation, viewing to the east.

Backfilled excavation, viewing to the northeast.

Backfilled excavation, viewing to the south.

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QUESTIONS

Action 333188

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2109651124**
Incident Name	**NAPP2109651124 SALADO DRAW 13 SWD @ 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 13 SWD
Date Release Discovered	03/25/2021
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: Corrosion | Pump | Produced Water | Released: 6 BBL | Recovered: 6 BBL | Lost: 0 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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	2380
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	05/24/2023
On what date will (or did) the final sampling or liner inspection occur	12/18/2023
On what date will (or was) the remediation complete(d)	01/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2241
What is the estimated volume (in cubic yards) that will be remediated	323
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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	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	MILESTONE WASTE TREATMENT AND INJECTION FACILITY [fDHR1918357813]
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	*Not answered.*
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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024
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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	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	The locations are in close proximity to flowlines, electrical lines, concrete support structures, production and automation equipment, and lined containments. Remediation of these areas would require major facility deconstruction and do not pose an imminent risk to human health or the environment. Figure 6 presents an aerial image with the deferral area.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	756
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	114
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	SALADO DRAW SWD 13 ROTF FACILITY [fSL2003151750]
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**293468**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**12/18/2023**
What was the (estimated) number of samples that were to be gathered	**8**
What was the sampling surface area in square feet	**1600**

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	2241
What was the total volume (cubic yards) remediated	323
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	2241
What was the total volume (in cubic yards) reclaimed	323
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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333188
	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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Santa Fe, NM 87505

CONDITIONS

Action 333188

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 333188
	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.	5/13/2024