Incident ID: nAPP2429640444
REMEDIATION AND CLOSURE REPORT
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Produce Water Release
Eddy County, New Mexico

Latitude: 32.06602
Longitude: -104.16481

LAI Project No: 24-0117-02

July 8, 2025

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

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 201
Midland, Texas 79701

Daniel St. Germain

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

Daniel St. Germain, P.G.
Staff Geologist

This Page Intentionally Left Blank

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 II for a produced water release at the Hayhurst NM Section 2 SWD Facility, also known as the Gravitas SWD (Site) located in Unit N (SE/4 of SW/4), Section 2, Township 26 South, Range 27 East, in Eddy County, New Mexico. The geodetic position is 32.06602, -104.16481. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on October 9, 2024, and was the result of equipment failure. About eight barrels (bbls) of produced water were released, and according to the initial C-141, no fluid was recovered. The spill covered an area of about 5,370 square feet entirely contained to the pad. No offsite areas were impacted by the release. The incident occurred on land owned by the State of New Mexico administered by New Mexico State Land Office (NMSLO). The initial C-141 was received by the NMOCD on September 22, 2024, and assigned incident number nAPP2429640444. Appendix A presents the initial C-141 and Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,220 feet above mean sea level (msl).
- Surface topography slopes gently to the northeast.
- The nearest continuously flowing water course (Pecos River) is located about 7.16 miles to the northeast.
- The nearest lakebed, sinkhole, or playa lake is located about 4.1 miles to the southeast.
- The nearest wetland is located about 2.2 miles to the northwest.
- The nearest subsurface mine is located about 25.4 miles to the northeast.
- The nearest 100-year flood plain is located 1.8 miles to the northwest.
- There nearest active water well for stock watering is located about 600 feet to the west.
- USGS karst occurrence potential data designates the area as “high” risk.
- The uppermost geologic formation is the Rustler Formation, consisting of siltstone, gypsum, sandstone, and dolomite.
- Soils are predominantly Reeves-Gypsum land complex, where the typical Reeves profile consists of 8 inches of loam underlain by 24 inches of clay loam, and 28 inches of gypsiferous material, in descending order.
- Groundwater was reported at 25.25 feet below ground surface (bgs), based on a soil boring (BH-1) drilled on April 29, 2020, about 0.36 miles northwest of the Site and measured 72-hours after completion.

Figure 2 presents an aerial map with boring (BH-1) location. Appendix B presents a karst potential map. Appendix C presents the soil boring log.

1.3 Remediation Standards

The following delineation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC for groundwater less than 51 feet bgs:

Parameter	Limit
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chloride	600 mg/Kg

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

2.0 REMEDIATION PLAN

The remediation plan was outlined in the report titled, *Delineation Report and Remediation Plan, Hayhurst NM Section 2 SWD Facility (Gravitas SWD), Produced Water Release, Eddy County, New Mexico*, dated January 3, 2025. The report recommended the following remedial action:

- Use mechanical and hydro-excavation methods to remove about 389 cubic yards of soil from a total area of approximately 6,495 square feet including:
  - Excavating the area (~4,757 square feet) encompassing locations S-1 through S-6 to a depth of one-foot bgs, equaling about 176.2 cubic yards.
  - Excavating the area (~986 square feet) encompassing locations S-7 and S-8 to a depth of two feet bgs, equaling about 73 cubic yards.
  - Excavating the area (~563 square feet) encompassing location S-9 to a depth of four feet bgs, equaling about 83.4 cubic yards.
  - Excavating the area (~190 square feet) encompassing location S-12 to a depth of eight feet bgs, equaling about 56 cubic yards
  - Or to areas and depths where all remediation parameters (benzene, BTEX, TPH, chloride) are below the NMOCD closure criteria throughout the impacted area.
- Collect about forty-four (44) five-point composite confirmation samples from the bottom and sidewalls of the excavation, or approximately every 200 square feet of the excavation, and analyze for BTEX, TPH, and chloride, by NMOCD approved analytical methods.
- Backfill excavation with non-waste containing soil to surface level, assuming all confirmation samples are below NMOCD closure criteria.
- Prepare closure report for submittal to the NMOCD.

The remediation plan was approved, on January 24, 2025, under the condition that a minimum of one (1) five-point sample be collected from the backfill analyzed and analyzed for chloride. Figure 2 presents the proposed excavation map. Table 1 presents the delineation sample analytical summary.

3.0 REMEDIATION

Between April 16 and May 21, 2025, Warrior Technologies (Warrior) and Apeck Construction (Apeck), under the guidance of LAI personnel removed approximately 310 cubic yards of impacted soil from an area of about 5,300 square feet using hydro-excavation mechanical excavation methods. Impacted material was disposed of at the R360 Red Bluff Facility in Reeves County, Texas.

Between April 22 and May 21, 2025, LAI personnel collected forty-five (45) five-point confirmation samples from forty-two (42) sample areas (C-1 through C-42), including forty-two (42) initial samples and three (3) final samples from areas where an initial confirmation sample was reported above closure criteria. The confirmation samples were collected from the bottom and sidewalls of the excavation in areas that represent about 200 square feet at depths ranging between one (1) and eight (8) feet bgs.

The samples were delivered under chain-of-custody and preservation to Eurofins laboratories (Eurofins) in Midland, Texas. Eurofins 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 (ORO) by EPA SW-846 Method 8015M; and chloride by EPA Method 300.

On April 22 and 24, 2025, LAI personnel collected five (5) confirmation samples (C-28 through C-32) from the bottom of the excavation at a depth of approximately two (2) feet bgs. Eurofins reported that all samples were below NMOCD closure criteria for benzene (10 mg/Kg), BTEX (50 mg/Kg), and TPH (100 mg/Kg). Chloride was reported above the closure criteria of 600 mg/Kg, in sample C-32 (779 mg/kg).

On May 2, 2025, LAI personnel collected eight (8) initial confirmation samples (C-25 through C-27 and C-34 through C-37) from the bottom and sidewalls of the excavation and one (1) sample (C-32) that was previously reported above closure criteria and further excavated. The samples were collected at depths between two (2) and three (3) feet bgs. Eurofins reported that benzene, BTEX, and chloride were below closure criteria in all samples. TPH was reported above closure criteria in sample C-37 (387 mg/kg).

On May 14 and 16, 2025, LAI personnel collected eight (8) initial confirmation samples (C-13 through C-15, C-18, C-19, and C-22 through C-24) from the bottom and sidewalls of the excavation and one (1) sample (C-37) that was previously reported above closure criteria and further excavated. The samples were collected at depths between one (1) and two and a half (2.5) feet bgs. Eurofins reported that benzene, BTEX and TPH were below closure criteria in all samples. Chloride was reported above closure criteria in sample C-24 (1,210 mg/kg).

Between May 19 and 21, 2025, LAI personnel collected 22 initial confirmation samples (C-01 through C-12, C-16, C-17, C-20, C-21, C-33, and C-38 through C-42) from the bottom and sidewalls of the

excavation and one (1) sample that was previously reported above closure criteria (C-24) and further excavated. The samples were collected at depths between one (1) and eight (8) feet bgs. Eurofins analyzed samples and reported that benzene, BTEX, TPH, and chloride were below closure criteria in all samples.

Laboratory analysis demonstrates that benzene, BTEX, TPH, and chloride were remediated below the lowest NMOCD closure standards for groundwater less than 51 feet bgs listed in Table 1 of 19.15.29 NMAC. Table 2 presents the confirmation sample analytical summary. Figure 3 presents an aerial map with the excavation areas and confirmation sample locations. Appendix E presents the laboratory reports.

On May 1, 2025, LAI personnel collected one (1) composite backfill sample (BF-1) from a borrow pit located in Unit N, Section 2, Township 26 South, Range 27 East, in Eddy County, New Mexico. The sample was analyzed by Eurofins and was reported below the analytical method reporting limit for benzene, BTEX, and TPH. Chloride was reported at 152 mg/kg, below the NMOCD requirements prescribed in 19.15.29.13D(1) NMAC.

Between June 18 and 23, 2025, Apeck backfilled the excavation with the non-waste containing backfill material collected from the nearby borrow pit and restored the surface to a similar condition prior to remediation. Table 2 presents the backfill sample analytical summary. Appendix E presents the laboratory reports. Appendix D presents the final sampling notifications and variance approval for sampling notifications. Appendix F presents photographic documentation.

4.0 CULTURAL PROPERTIES AND BIOLOGICAL SENSITIVE AREAS

4.1 Cultural Properties Compliance

All remediation activities at the Site were performed on land previously disturbed for oil and gas extraction, therefore an Archaeological Records Management Section (ARMS) review/inspection was not required.

4.2 Biological Compliance

The Site is located about three (3) miles north of an ephemeral drainage designated as management zone C in the Texas Hornshell Mussel CCAA (Candidate Conservation Agreements with Assurances). Additionally, potential habitats for two sensitive plant species were identified nearby the Site, including Sheer's beehive catus and Wrights waterwillow. Potential habitats for Sheers beehive cactus bound the Site in each cardinal direction, withs is nearest border located about 880 feet to the south; and potential habitat for Wrights waterwillow is located about one (1) mile to the east. All remediation activities remained onsite, and a biological survey was not required.

5.0 CLOSURE REQUEST

Chevron requests closure for nAPP2429640444.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				***10***	***50***				***100***	***600***
S-1	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**5,180**
S-1	0.5	10/24/2024	In-situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	**2,700**
S-1	1	12/17/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**88.7**
S-1	3	12/17/2024	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**72.7**
S-1	5	12/17/2024	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**70.3**
S-1	7	12/17/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**75.7**
S-1	10	12/17/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**98.9**
S-2	0	10/24/2024	In-situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	**224**
S-2	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,640**
S-2	1	12/18/2024	In-situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**126**
S-2	3	12/18/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**124**
S-2	5	12/18/2024	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**72.6**
S-2	7	12/18/2024	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	**76.2**
S-2	10	12/18/2024	In-situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	**109**
S-3	0	10/24/2024	In-situ	<0.00204	<0.00407	<49.9	<49.9	<49.9	<49.9	**6,570**
S-3	0.5	10/24/2024	In-situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	**3,120**
S-3	1	12/18/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**238**
S-3	3	12/18/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	**145**
S-3	5	12/18/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**110**
S-3	7	12/18/2024	In-situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	**104**
S-3	10	12/18/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**70.2**
S-4	0	10/24/2024	In-situ	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	**529**
S-4	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.5	<49.5	<49.5	<49.5	**510**
S-5	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.5	<49.5	<49.5	<49.5	**9,410**
S-5	0.5	10/24/2024	In-situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	**4,920**
S-5	1	12/18/2024	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	**300**
S-5	3	12/18/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**177**
S-5	5	12/18/2024	In-situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**101**
S-5	7	12/18/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**84.6**
S-5	10	12/18/2024	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	**37.1**
S-6	0	10/24/2024	In-situ	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	**5,520**

Table 1
Delineation Soil Sample Analytical Data Summary
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				***10***	***50***				***100***	***600***
S-6	0.5	10/24/2024	In-situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	**571**
S-7	0	10/24/2024	In-situ	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	**21,300**
S-7	0.5	10/24/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**4,330**
S-7	1	12/19/2024	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**1,710**
S-7	3	12/19/2024	In-situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	**301**
S-8	0	10/24/2024	In-situ	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	**8,760**
S-8	0.5	10/24/2024	In-situ	<0.00200	<0.00400	<50.5	<50.5	<50.5	<50.5	**15,500**
S-8	1	12/19/2024	In-situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**2,650**
S-8	3	12/19/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**391**
S-9	0	10/24/2024	In-situ	<0.00199	<0.00398	<50.0	**106**	<50.0	**106**	**17,100**
S-9	0.5	10/24/2024	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	**6,880**
S-9	1	12/20/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**5,350**
S-9	3	12/20/2024	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**1,490**
S-9	5	12/20/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**117**
S-10	0	12/19/2024	In-situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**89.9**
S-10	0.5	12/19/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**89.7**
S-11	0	12/17/2024	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	**165**
S-11	0.5	12/17/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**128**
S-12	0	12/19/2024	In-situ	<0.00200	<0.00401	<49.9	**3060**	<49.9	**3060**	**26,800**
S-12	0.5	12/19/2024	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**3,430**
S-12	1	12/19/2024	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**3,590**
S-12	3	12/19/2024	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	**2,650**
S-12	5	12/19/2024	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	**1,160**
S-12	7	12/19/2024	In-situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	**1,200**
S-12	10	12/19/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**194**
S-13	0	12/20/2024	In-situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**120**
S-13	0.5	12/20/2024	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**106**
S-14	0	12/19/2024	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	**220**
S-14	0.5	12/19/2024	In-situ	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	**208**

Table 1
Delineation Soil Sample Analytical Data Summary
Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth Feet	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limits:				***10***	***50***				***100***	***600***

Notes:

Analysis performed by Eurofins Laboratories (Eurofins), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).
BTEX: benzene, toluene, ethylbenzene, xylene
TPH: total petroleum hydrocarbons
GRO: gasoline range organics (C6-C10)
DRO: diesel range organics (>C10-C28)
MRO: oil range organics (>C28-C36)
mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)
<: indicates that parameter concentration is below analytical method reporting limit
Depth reported in feet below ground surface (bgs)
Bold and highlighted indicates parameter concentration is above NMOCD closure criteria

Table 2
Confirmation Sample Analytical Summary
Chevron - Gravitas SWD
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth (feet)	Location	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					**10**	**50**				**100**	**600**
C-01	1	Bottom	05/19/25	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	107
C-02	1	Bottom	05/19/25	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	83.3
C-03	1	Bottom	05/19/25	In-situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	140
C-04	1	Bottom	05/19/25	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	78.5
C-05	1	Bottom	05/19/25	In-situ	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	106
C-06	1	Bottom	05/19/25	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	138
C-07	1	Bottom	05/19/25	In-situ	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	178
C-08	1	Bottom	05/19/25	In-situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	153
C-09	1	Bottom	05/19/25	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	69.6
C-10	1	Bottom	05/19/25	In-situ	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	72
C-11	1	Bottom	05/19/25	In-situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	141
C-12	1	Bottom	05/19/25	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	101
C-13	1	Bottom	05/16/25	In-situ	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	238
C-14	1	Bottom	05/16/25	In-situ	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	281
C-15	1	Bottom	05/16/25	In-situ	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	90.1
C-16	2	Bottom	05/20/25	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	218
C-17	2	Bottom	05/20/25	In-situ	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	82.8
C-18	1	Bottom	05/16/25	In-situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	111
C-19	1	Bottom	05/16/25	In-situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	122
C-20	2	Bottom	05/20/25	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	116
C-21	2	Bottom	05/20/25	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	178
C-22	1	Bottom	05/16/25	In-situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	309
C-23	1	Bottom	05/16/25	In-situ	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	178
C-24	1	Bottom	05/16/25	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**1,210**
C-24	2	Bottom	05/21/25	In-situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	240
C-25	2	Bottom	05/02/25	In-situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	96.3
C-26	2	Bottom	05/02/25	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	116
C-27	2	Bottom	05/02/25	In-situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	101
C-28	2	Bottom	04/24/25	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	304
C-29	2	Bottom	04/24/25	In-situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	255
C-30	2	Bottom	04/24/25	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	185

Table 2
Confirmation Sample Analytical Summary
Chevron - Gravitas SWD
Eddy County, New Mexico
32.06637, -104.16509

Sample ID	Depth (feet)	Location	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					**10**	**50**				**100**	**600**
C-31	2	Bottom	04/22/25	In-situ	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	335
C-32	2	Bottom	04/22/25	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**779**
C-32	2.5	Bottom	05/02/25	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	118
C-33	8	Bottom	05/21/25	In-situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	384
C-34	0-2	Sidewall	05/02/25	In-situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	115
C-35	0-2	Sidewall	05/02/25	In-situ	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	106
C-36	0-3	Sidewall	05/02/25	In-situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	100
C-37	0-2	Sidewall	05/02/25	Excavated	<0.00202	<0.00403	<49.8	387	<49.8	**387**	103
C-37	0-2.5	Sidewall	05/14/25	In-situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	113
C-38	0-1	Sidewall	05/21/25	In-situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	76.8
C-39	0-1	Sidewall	05/21/25	In-situ	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	73.5
C-40	0-2	Sidewall	05/21/25	In-situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	0.919
C-41	0-2	Sidewall	05/21/25	In-situ	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	187
C-42	0-8	Sidewall	05/21/25	In-situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	438
Backfill Samples											
BF-1	--	--	05/01/25	--	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	153

Notes:

Analysis performed by Eurofins Laboratories (Eurofins), in Midland, Texas, by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and EPA Method 300 (chloride).
mg/Kg: milligrams per kilogram; equivalent to parts per million (ppm)
BTEX: benzene, toluene, ethylbenzene, xylene
TPH: total petroleum hydrocarbons
GRO: gasoline range organics (C1-C10)
DRO: diesel range organics (>C10-C28)
MRO: oil range organics (>C28-C36)
<: indicates that parameter concentration is below analytical method reporting limit
Bold and highlighted indicates parameter concentration is above NMOCD closure criteria.

Figures

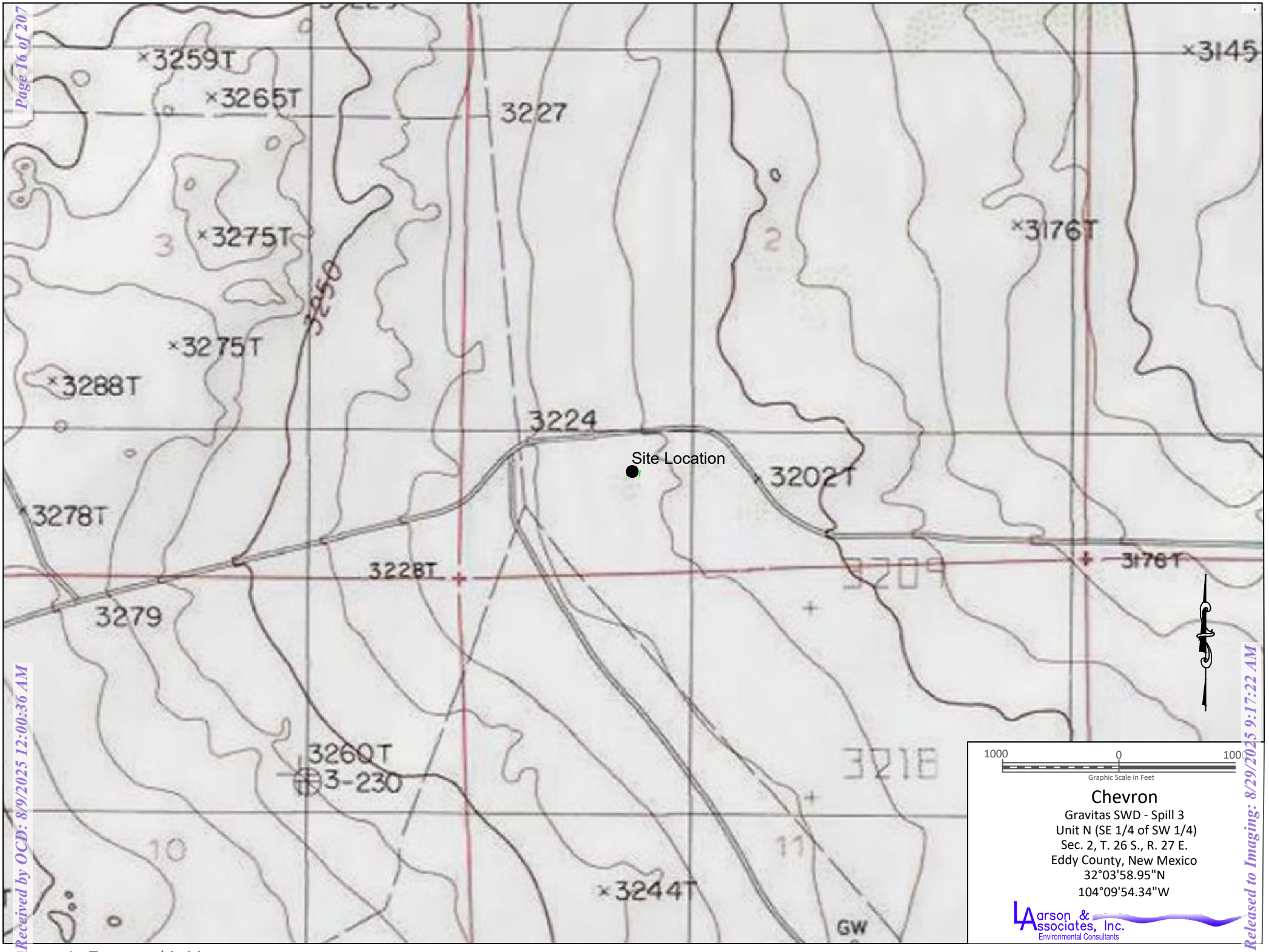


Figure 1 - Topographic Map

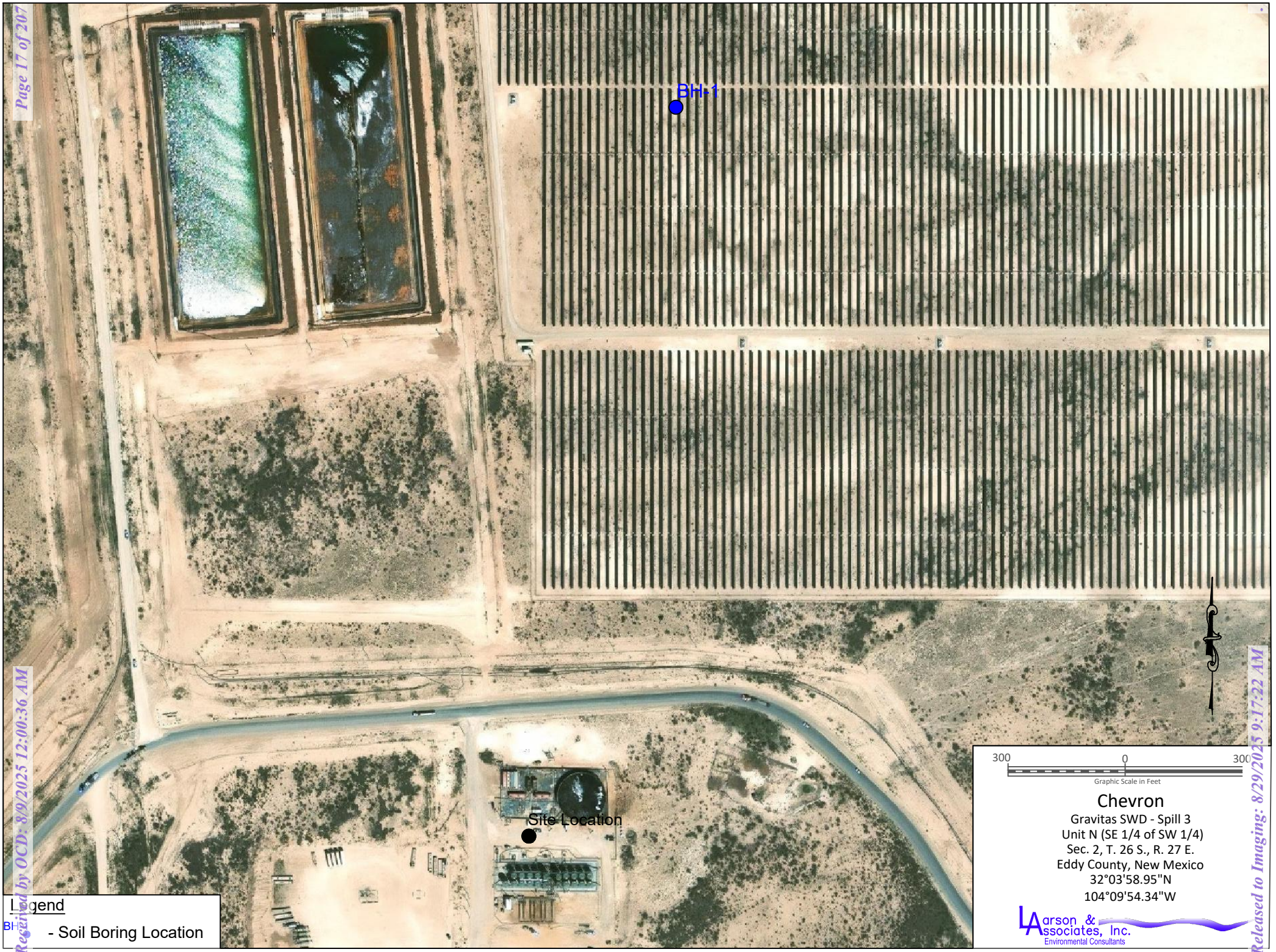


Figure 2 - Aerial Map Showing Soil Boring Location

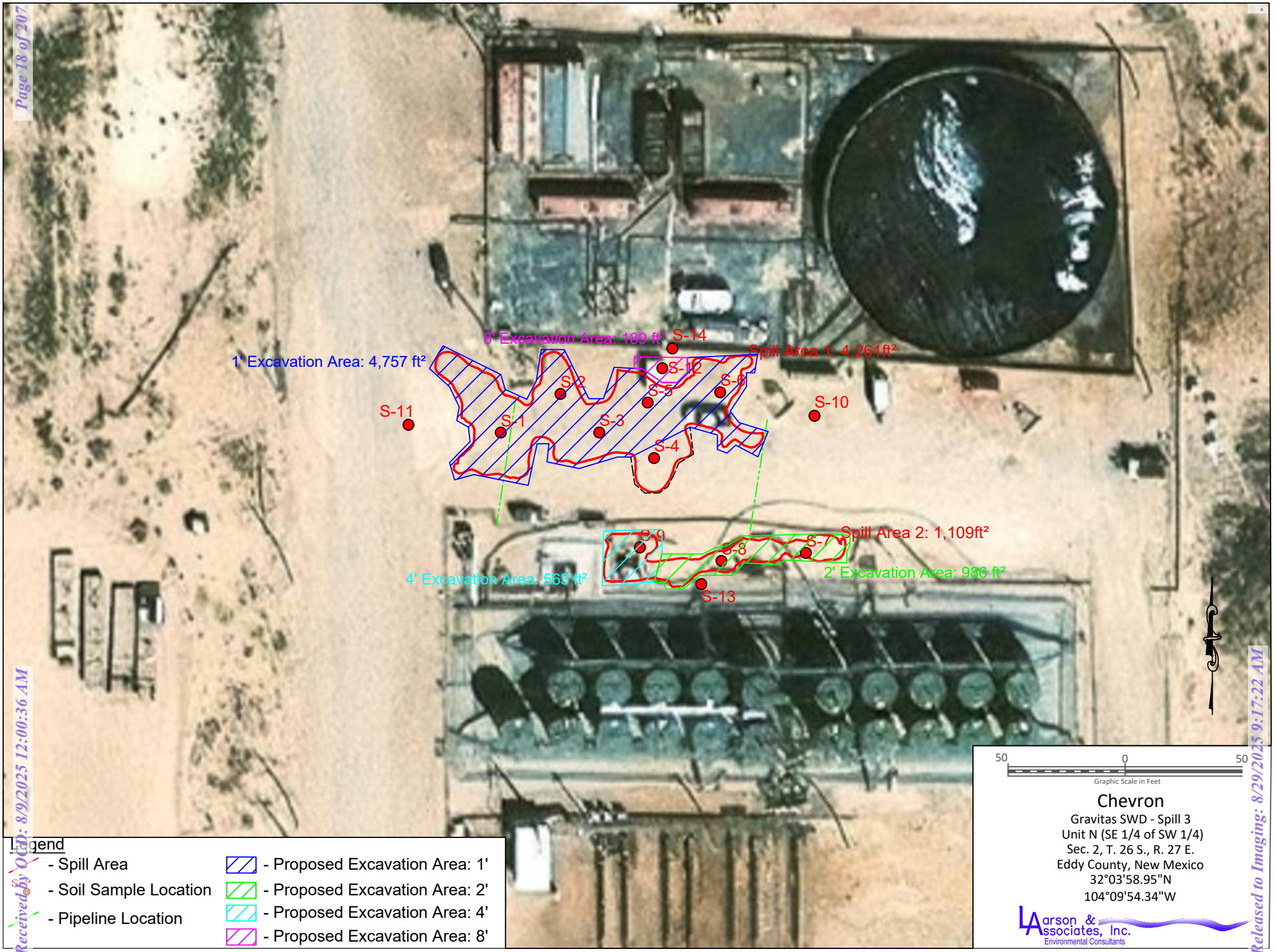


Figure 3 - Aerial Map Showing Proposed Excavation Areas

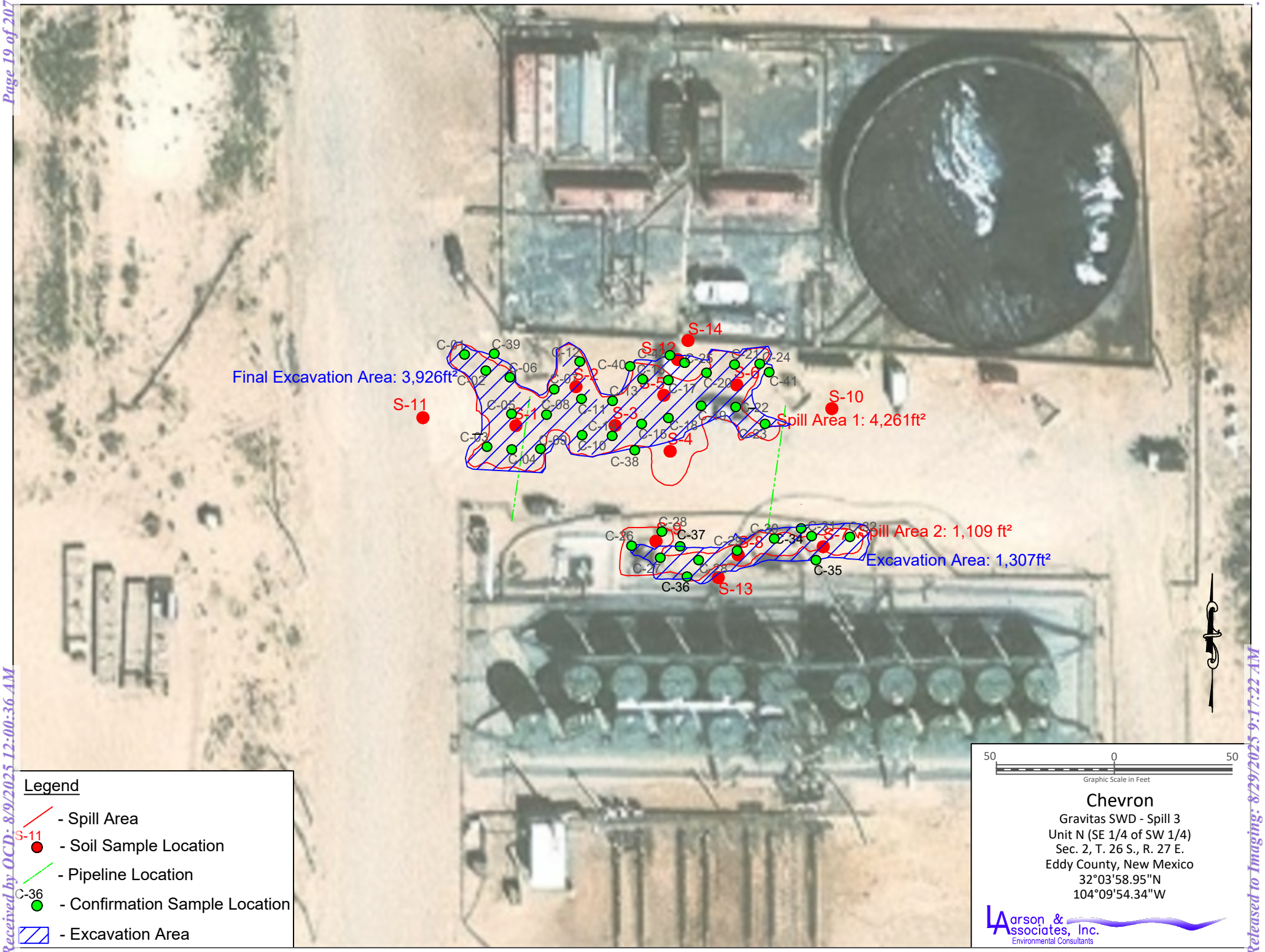


Figure 3 - Aerial Map Showing Excavation Areas

Appendix A

Initial C-141 and Spill Calculation

Spilled Material: Produced Water Only
Oil Released: bbl
Oil Recovered: bbl
Water Released: 8.176 bbl
Water Recovered: bbl

Calculation Details

Area	Shape	Secondary Containment	Standing Liquid Dimension	Standing Liquid Volume	Water Cut	Oil Volume	Penetration Depth	Water to Soil Volume	Water Volume
1	Rectangle	Land	13 ft x 18 ft x .125 in	0.499 bbl	%	0.499 bbl	.125 in	0.065 bbl	
2	Rectangle	Land	9 ft x 22 ft x .5 in	1.524 bbl	%	1.524 bbl	.125 in	0.055 bbl	
3	Rectangle	Land	13 ft x 13 ft x 1 in	2.555 bbl	%	2.555 bbl	.125 in	0.047 bbl	
4	Rectangle	Land	13 ft x 16 ft x 1 in	3.145 bbl	%	3.145 bbl	.125 in	0.058 bbl	
5	Rectangle	Land	10 ft x 3 ft x 1 in	0.453 bbl	%	0.453 bbl	.125 in	0.008 bbl	
6					%				
7					%				
Rec Vol									
Total Vol									8.176

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 394606

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2429640444**
Incident Name	**NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2131342213] Hayhurst NM Section 2 SWD Facility**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hayhurst NM Section 2 SWD Facility (Gravitas SWD)
Date Release Discovered	10/09/2024
Surface Owner	State

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: Equipment Failure | Pump | Produced Water | Released: 8 BBL | Recovered: 0 BBL | Lost: 8 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.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 10/22/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*
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	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

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	No
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.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 394606
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/22/2024

Appendix B

Karst Potential Map


Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Whites City Rd
Windmill Oasis
Gravitas SWD
Willhoit Ranch Rd
Eddy County SWD
Storage Facility for...
Temporarily closed
775
775
LEGEND
Site Location
Karst Risk Potential
High
Medium
Low
0
100
200 ft

Appendix C

Boring Log

BORING RECORD

Start: 11:30
Finish: 12:30

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Silty Sand, 7.5YR 8/2, Pinkish White, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-2cm Clast Inclusions	ML	
	5	Caliche, 7.5YR 8/1, White, Rounded, Poorly Sorted, Medium Grained, Subangular, 0.5-1cm Diameter Clast Inclusions	Caliche	
	10			
	15	Silty Sand, 7.5YR 6/6, Reddish Yellow, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions 7.5YR 6/8, Reddish Yellow, Subangular, 0.5-2.5cm Diameter Clast Inclusions	ML	
Depth to Water: 25.25	20			
	25	Quartz Sand, 2.5YR 8/2, Pinkish White, Fine Grained, Rounded, Poorly Sorted, Subangular, 0.5-2cm Diameter Clast Inclusions	SM	
	30			
	35			
	40	Quartz Sand, Very Fine Grained, Well Rounded, Poorly Sorted, 7.5YR 8/1, White, Subangular Clast Inclusions, 0.5-1.5cm Diameter		
	45			
	50		SM	

PID READING
PPM X _____
2 4 6 8 10 12 14 16 18

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH

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/ 20-0107-03
HOLE DIAMETER : 2"
LOCATION : 32°04'17.3600", -104°09'49.6600"
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-29-2020

BORING NUMBER : BH-1

Appendix D

NMOCD Communications

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 450920

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 450920
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2429640444**
Incident Name	**NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Facility	**[fAPP2131342213] Hayhurst NM Section 2 SWD Facility**

Location of Release Source	
Site Name	**HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD)**
Date Release Discovered	**10/09/2024**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	4,757
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/15/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Inderveer 432-313-1921; samples will be collected until 4/25/2025
Please provide any information necessary for navigation to sampling site	32.066375, -104.165094

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 450920
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
branes	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.	4/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 460795

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 460795
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2429640444**
Incident Name	**NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Facility	**[fAPP2131342213] Hayhurst NM Section 2 SWD Facility**

Location of Release Source	
Site Name	**HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD)**
Date Release Discovered	**10/09/2024**
Surface Owner	**State**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	4,757
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Inderveer 432-313-1921; samples will be collected until 5/23/2025.
Please provide any information necessary for navigation to sampling site	32.066375, -104.165094

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 460795

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 460795
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	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.	5/12/2025

Outlook

FW: [EXTERNAL] nAPP2429640444 - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) (10.09.2024) - Notification Variance

From Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Date Fri 8/8/2025 10:18 AM
To Daniel St. Germain <dstgermain@laenvironmental.com>

Please include in closure report.

Kennedy Lincoln
NM Region Environmental Specialist
Shale & Tight Business Unit
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, August 8, 2025 10:17 AM
To: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Subject: [**EXTERNAL**] Re: [EXTERNAL] nAPP2429640444 - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) (10.09.2024) - Notification Variance

Good morning Kennedy,

Thank you for the correspondence. Your variance request toward 19.15.29.12D (1a) NMAC has been approved. Please input into the sampling notification portal and record this approval within one of the last two (2) entries.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, August 4, 2025 4:48 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] nAPP2429640444 - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) (10.09.2024) - Notification Variance

---

From: Lincoln, Kennedy <Kennedy.Lincoln@chevron.com>
Sent: Monday, August 4, 2025 3:18 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] nAPP2429640444 - Hayhurst NM Section 2 SWD Facility (Gravitas SWD) (10.09.2024) - Notification Variance

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon Nelson,

Chevron USA, Inc is requesting a variance for the 48-hour sampling notification (C-141N) required in 19.15.29.12.B.(1) NMAC for the Hayhurst NM Section 2 SWD - Incident Number nAPP2429640444. Excavation at the Site began April 16th, 2025, and concluded on June 23rd, 2025. Sampling notifications were submitted on April 10th, 2025 and May 12th, 2025, however one sampling event's notification was not submitted. Kindly be aware that these occurred during a high turnover period of personnel in our department and transitioning staff which resulted in miscommunication between the consultant and Chevron.

The excavation extent measured approximately 5,300 square feet and 45 confirmation soil samples were collected. In our efforts to correct the issue, Chevron is requesting a variance for the 48-hour notice and will submit the required C-141N immediately following approval of the variance.

This oversight in communication has been corrected and we do not anticipate this being an issue moving forward. Please let me know if there is any more information or clarity I can provide. Thank you for your time and consideration.

Thank you,

Kennedy Lincoln

NM Region Environmental Specialist
Shale & Tight Business Unit
Chevron North America Exploration and Production Company
6301 Deauville Midland, TX
Mobile (432) 813-5384
Kennedy.Lincoln@chevron.com

Appendix E

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 4/30/2025 11:09:09 AM

JOB DESCRIPTION

Gravitas
24-0117-02

JOB NUMBER

880-57187-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

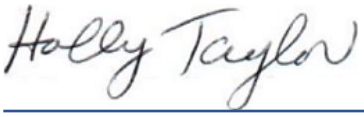
Eurofins Midland

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
4/30/2025 11:09:09 AM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Laboratory Job ID: 880-57187-1
SDG: 24-0117-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project: Gravitas

Job ID: 880-57187-1 Eurofins Midland

Job Narrative
880-57187-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 4/22/2025 2:30 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 3.3°C.

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-108909 recovered under the lower control limit for Benzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-108212 and analytical batch 880-108758 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-108212 and analytical batch 880-108758 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: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

Client Sample ID: C-31 2'

Date Collected: 04/22/25 08:53
Date Received: 04/22/25 14:30

Lab Sample ID: 880-57187-1
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		04/23/25 13:52	04/30/25 05:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/23/25 13:52	04/30/25 05:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/23/25 13:52	04/30/25 05:14	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		04/23/25 13:52	04/30/25 05:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/23/25 13:52	04/30/25 05:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/23/25 13:52	04/30/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/23/25 13:52*	*04/30/25 05:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/23/25 13:52*	*04/30/25 05:14*	*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			04/30/25 05:14	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			04/27/25 08:22	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		04/21/25 11:46	04/27/25 08:22	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/21/25 11:46	04/27/25 08:22	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/21/25 11:46	04/27/25 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*04/21/25 11:46*	*04/27/25 08:22*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*04/21/25 11:46*	*04/27/25 08:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**335**		10.0		mg/Kg			04/24/25 13:15	1

Client Sample ID: C-32 2'

Date Collected: 04/22/25 08:42
Date Received: 04/22/25 14:30

Lab Sample ID: 880-57187-2
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		04/23/25 13:52	04/30/25 05:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 05:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 05:35	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/23/25 13:52	04/30/25 05:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 05:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/23/25 13:52	04/30/25 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/23/25 13:52*	*04/30/25 05:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/23/25 13:52*	*04/30/25 05:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

Client Sample ID: C-32 2'

Date Collected: 04/22/25 08:42
Date Received: 04/22/25 14:30

Lab Sample ID: 880-57187-2

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			04/30/25 05:35	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			04/27/25 08:37	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		04/21/25 11:46	04/27/25 08:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/25 11:46	04/27/25 08:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/25 11:46	04/27/25 08:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*04/21/25 11:46*	*04/27/25 08:37*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*04/21/25 11:46*	*04/27/25 08:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**779**		49.9		mg/Kg			04/24/25 13:37	5

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

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)
880-56959-A-19-A MB	Method Blank	102	99
880-57187-1	C-31 2'	109	99
880-57187-2	C-32 2'	103	101
LCS 880-108452/1-A	Lab Control Sample	98	101
LCSD 880-108452/2-A	Lab Control Sample Dup	98	98
MB 880-108912/5-A	Method Blank	100	94

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)
880-57187-1	C-31 2'	109	105
880-57187-2	C-32 2'	108	104
LCS 880-108212/2-A	Lab Control Sample	128	123
LCSD 880-108212/3-A	Lab Control Sample Dup	127	120
MB 880-108212/1-A	Method Blank	140 S1+	142 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-56959-A-19-A MB
Matrix: Solid
Analysis Batch: 108909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108452

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 03:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 03:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 03:32	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/23/25 13:52	04/30/25 03:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/23/25 13:52	04/30/25 03:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/23/25 13:52	04/30/25 03:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*04/23/25 13:52*	*04/30/25 03:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/23/25 13:52*	*04/30/25 03:32*	*1*

Lab Sample ID: LCS 880-108452/1-A
Matrix: Solid
Analysis Batch: 108909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108452

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09103		mg/Kg		91	70 - 130		
Toluene			0.100	0.09442		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09451		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.1898		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09576		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-108452/2-A
Matrix: Solid
Analysis Batch: 108909

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108452

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08988		mg/Kg		90	70 - 130	1	35
Toluene			0.100	0.09253		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09241		mg/Kg		92	70 - 130	2	35
m,p-Xylenes			0.200	0.1850		mg/Kg		92	70 - 130	3	35
o-Xylene			0.100	0.09331		mg/Kg		93	70 - 130	3	35

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

Lab Sample ID: MB 880-108912/5-A
Matrix: Solid
Analysis Batch: 108909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108912

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:33	04/29/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:33	04/29/25 11:28	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

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

Lab Sample ID: MB 880-108912/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 108909 **Prep Batch: 108912**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:33	04/29/25 11:28	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/29/25 08:33	04/29/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/25 08:33	04/29/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/25 08:33	04/29/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/29/25 08:33*	*04/29/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/29/25 08:33*	*04/29/25 11:28*	*1*

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

Lab Sample ID: MB 880-108212/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 108758 **Prep Batch: 108212**

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		04/21/25 11:46	04/27/25 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/25 11:46	04/27/25 04:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/25 11:46	04/27/25 04:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*04/21/25 11:46*	*04/27/25 04:23*	*1*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*	*04/21/25 11:46*	*04/27/25 04:23*	*1*

Lab Sample ID: LCS 880-108212/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 108758 **Prep Batch: 108212**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1298		mg/Kg		130	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1120		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*128*		*70 - 130*
o-Terphenyl (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-108212/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 108758 **Prep Batch: 108212**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1291		mg/Kg		129	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1125		mg/Kg		113	70 - 130	0	20

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-108212/3-A
Matrix: Solid
Analysis Batch: 108758

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108212

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	127		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108464/1-A
Matrix: Solid
Analysis Batch: 108475

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/24/25 12:54	1

Lab Sample ID: LCS 880-108464/2-A
Matrix: Solid
Analysis Batch: 108475

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-108464/3-A
Matrix: Solid
Analysis Batch: 108475

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	243.2		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-57187-1 MS
Matrix: Solid
Analysis Batch: 108475

Client Sample ID: C-31 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	335		250	569.6		mg/Kg		94	90 - 110		

Lab Sample ID: 880-57187-1 MSD
Matrix: Solid
Analysis Batch: 108475

Client Sample ID: C-31 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	335		250	579.1		mg/Kg		98	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

GC VOA

Prep Batch: 108452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	5035	
880-57187-2	C-32 2'	Total/NA	Solid	5035	
880-56959-A-19-A MB	Method Blank	Total/NA	Solid	5035	
LCS 880-108452/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108452/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	8021B	108452
880-57187-2	C-32 2'	Total/NA	Solid	8021B	108452
880-56959-A-19-A MB	Method Blank	Total/NA	Solid	8021B	108452
MB 880-108912/5-A	Method Blank	Total/NA	Solid	8021B	108912
LCS 880-108452/1-A	Lab Control Sample	Total/NA	Solid	8021B	108452
LCSD 880-108452/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108452

Prep Batch: 108912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108912/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 109076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	Total BTEX	
880-57187-2	C-32 2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	8015NM Prep	
880-57187-2	C-32 2'	Total/NA	Solid	8015NM Prep	
MB 880-108212/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108212/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 108758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	8015B NM	108212
880-57187-2	C-32 2'	Total/NA	Solid	8015B NM	108212
MB 880-108212/1-A	Method Blank	Total/NA	Solid	8015B NM	108212
LCS 880-108212/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108212
LCSD 880-108212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108212

Analysis Batch: 108862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Total/NA	Solid	8015 NM	
880-57187-2	C-32 2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 108464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

HPLC/IC (Continued)

Leach Batch: 108464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-2	C-32 2'	Soluble	Solid	DI Leach	
MB 880-108464/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108464/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108464/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57187-1 MS	C-31 2'	Soluble	Solid	DI Leach	
880-57187-1 MSD	C-31 2'	Soluble	Solid	DI Leach	

Analysis Batch: 108475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57187-1	C-31 2'	Soluble	Solid	300.0	108464
880-57187-2	C-32 2'	Soluble	Solid	300.0	108464
MB 880-108464/1-A	Method Blank	Soluble	Solid	300.0	108464
LCS 880-108464/2-A	Lab Control Sample	Soluble	Solid	300.0	108464
LCSD 880-108464/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108464
880-57187-1 MS	C-31 2'	Soluble	Solid	300.0	108464
880-57187-1 MSD	C-31 2'	Soluble	Solid	300.0	108464

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

Client Sample ID: C-31 2'

Date Collected: 04/22/25 08:53
Date Received: 04/22/25 14:30

Lab Sample ID: 880-57187-1
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			4.95 g	5 mL	108452	04/23/25 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108909	04/30/25 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109076	04/30/25 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			108862	04/27/25 08:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	108212	04/21/25 11:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108758	04/27/25 08:22	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	108464	04/23/25 15:20	SI	EET MID
Soluble	Analysis	300.0		1			108475	04/24/25 13:15	CH	EET MID

Client Sample ID: C-32 2'

Date Collected: 04/22/25 08:42
Date Received: 04/22/25 14:30

Lab Sample ID: 880-57187-2
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	108452	04/23/25 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108909	04/30/25 05:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109076	04/30/25 05:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			108862	04/27/25 08:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108212	04/21/25 11:46	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	108758	04/27/25 08:37	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108464	04/23/25 15:20	SI	EET MID
Soluble	Analysis	300.0		5			108475	04/24/25 13:37	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: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

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	06-30-25

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: 880-57187-1
Project/Site: Gravitas SDG: 24-0117-02

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: Gravitas

Job ID: 880-57187-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57187-1	C-31 2'	Solid	04/22/25 08:53	04/22/25 14:30
880-57187-2	C-32 2'	Solid	04/22/25 08:42	04/22/25 14:30

No. 3260

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/22/25 PAGE 1 OF 1
PO#: LAB WORK ORDER#: 71867
PROJECT LOCATION OR NAME: GRAVITAS
LAI PROJECT #: 24-0117-02 COLLECTOR: IR

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 VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-31 2'		4/22/25	8:53	S	1				X		X		X		X	X	X																									X			
C-32 2'		1	8:42	1	1				1		1		1		1	1	1																									1			
TOTAL 2																																																

880-57187 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	4/22/25 1430	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 3.4 / 3.3 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-57187-1
SDG Number: 24-0117-02

Login Number: 57187
List Number: 1
Creator: Vasquez, Julisa

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: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 5/2/2025 9:13:33 AM

JOB DESCRIPTION

Gravitas
24-0117-02

JOB NUMBER

880-57400-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

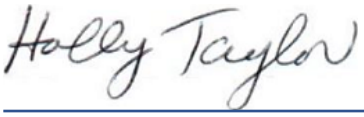
Eurofins Midland

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
5/2/2025 9:13:33 AM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Laboratory Job ID: 880-57400-1
SDG: 24-0117-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: 880-57400-1
Project: Gravitas

Job ID: 880-57400-1 Eurofins Midland

Job Narrative
880-57400-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 4/25/2025 3:36 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 4.3°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108844 and analytical batch 880-108911 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-30 2' (880-57400-1), C-29 2' (880-57400-2), C-28 2' (880-57400-3) and (890-8037-A-1-A MS). 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-108843 and analytical batch 880-109158 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-30 2' (880-57400-1), C-29 2' (880-57400-2), C-28 2' (880-57400-3), (LCSD 880-108843/3-A), (880-57399-A-2-A), (880-57399-A-2-C MS) and (880-57399-A-2-D MSD). 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: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Client Sample ID: C-30 2'

Date Collected: 04/24/25 06:34
Date Received: 04/25/25 15:36

Lab Sample ID: 880-57400-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		04/28/25 17:00	04/29/25 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/25 17:00	04/29/25 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/25 17:00	04/29/25 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/28/25 17:00*	*04/29/25 12:57*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/28/25 17:00*	*04/29/25 12:57*	*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			04/29/25 12:57	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			05/01/25 15:44	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		04/28/25 11:21	05/01/25 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/25 11:21	05/01/25 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/25 11:21	05/01/25 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*209*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 15:44*	*1*
o-Terphenyl (Surr)	*194*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		10.0		mg/Kg			04/29/25 01:10	1

Client Sample ID: C-29 2'

Date Collected: 04/24/25 06:39
Date Received: 04/25/25 15:36

Lab Sample ID: 880-57400-2
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		04/28/25 17:00	04/29/25 13:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/28/25 17:00	04/29/25 13:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/28/25 17:00	04/29/25 13:17	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		04/28/25 17:00	04/29/25 13:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/28/25 17:00	04/29/25 13:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/28/25 17:00	04/29/25 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/28/25 17:00*	*04/29/25 13:17*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/28/25 17:00*	*04/29/25 13:17*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

Client Sample ID: C-29 2'
Lab Sample ID: 880-57400-2
Date Collected: 04/24/25 06:39 **Matrix: Solid**
Date Received: 04/25/25 15:36

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			04/29/25 13:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 16:01	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		04/28/25 11:21	05/01/25 16:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/25 11:21	05/01/25 16:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/25 11:21	05/01/25 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*201*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 16:01*	*1*
o-Terphenyl (Surr)	*184*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 16:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**255**		9.92		mg/Kg			04/29/25 01:27	1

Client Sample ID: C-28 2'
Lab Sample ID: 880-57400-3
Date Collected: 04/24/25 07:12 **Matrix: Solid**
Date Received: 04/25/25 15:36

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		04/28/25 17:00	04/29/25 13:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 13:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 13:38	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		04/28/25 17:00	04/29/25 13:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 13:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/28/25 17:00	04/29/25 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*04/28/25 17:00*	*04/29/25 13:38*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/28/25 17:00*	*04/29/25 13:38*	*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			04/29/25 13:38	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			05/01/25 16:18	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		04/28/25 11:21	05/01/25 16:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/28/25 11:21	05/01/25 16:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Client Sample ID: C-28 2'
Date Collected: 04/24/25 07:12
Date Received: 04/25/25 15:36

Lab Sample ID: 880-57400-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/28/25 11:21	05/01/25 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*205*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 16:18*	*1*
o-Terphenyl (Surr)	*189*	*S1+*	*70 - 130*	*04/28/25 11:21*	*05/01/25 16:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		9.98		mg/Kg			04/29/25 01:33	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

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)
880-57400-1	C-30 2'	132 S1+	108
880-57400-2	C-29 2'	139 S1+	108
880-57400-3	C-28 2'	143 S1+	111
LCS 880-108844/1-A	Lab Control Sample	125	103
LCSD 880-108844/2-A	Lab Control Sample Dup	120	108
MB 880-108844/5-A	Method Blank	244 S1+	125

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)
880-57400-1	C-30 2'	209 S1+	194 S1+
880-57400-2	C-29 2'	201 S1+	184 S1+
880-57400-3	C-28 2'	205 S1+	189 S1+
LCS 880-108843/2-A	Lab Control Sample	127	130
LCSD 880-108843/3-A	Lab Control Sample Dup	135 S1+	139 S1+
MB 880-108843/1-A	Method Blank	184 S1+	168 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108844/5-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108844

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/25 17:00	04/29/25 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/25 17:00	04/29/25 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*244*	*S1+*	*70 - 130*	*04/28/25 17:00*	*04/29/25 11:47*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*04/28/25 17:00*	*04/29/25 11:47*	*1*

Lab Sample ID: LCS 880-108844/1-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108844

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1029		mg/Kg		103	70 - 130		
Toluene			0.100	0.09686		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1164		mg/Kg		116	70 - 130		
m,p-Xylenes			0.200	0.2244		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1167		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-108844/2-A
Matrix: Solid
Analysis Batch: 108911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108844

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1018		mg/Kg		102	70 - 130	1	35
Toluene			0.100	0.08671		mg/Kg		87	70 - 130	11	35
Ethylbenzene			0.100	0.1049		mg/Kg		105	70 - 130	10	35
m,p-Xylenes			0.200	0.2203		mg/Kg		110	70 - 130	2	35
o-Xylene			0.100	0.1187		mg/Kg		119	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

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

Lab Sample ID: MB 880-108843/1-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108843

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		04/28/25 11:20	05/01/25 01:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/25 11:20	05/01/25 01:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/25 11:20	05/01/25 01:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*184*	*S1+*	*70 - 130*	*04/28/25 11:20*	*05/01/25 01:18*	*1*
o-Terphenyl (Surr)	*168*	*S1+*	*70 - 130*	*04/28/25 11:20*	*05/01/25 01:18*	*1*

Lab Sample ID: LCS 880-108843/2-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	902.5		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1044		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*127*		*70 - 130*
o-Terphenyl (Surr)	*130*		*70 - 130*

Lab Sample ID: LCSD 880-108843/3-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	995.2		mg/Kg		100	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1118		mg/Kg		112	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*135*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-108884/1-A
Matrix: Solid
Analysis Batch: 108888

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/28/25 23:12	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-108884/2-A
Matrix: Solid
Analysis Batch: 108888

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-108884/3-A
Matrix: Solid
Analysis Batch: 108888

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.7		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

GC VOA

Prep Batch: 108844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	5035	
880-57400-2	C-29 2'	Total/NA	Solid	5035	
880-57400-3	C-28 2'	Total/NA	Solid	5035	
MB 880-108844/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108844/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108844/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	8021B	108844
880-57400-2	C-29 2'	Total/NA	Solid	8021B	108844
880-57400-3	C-28 2'	Total/NA	Solid	8021B	108844
MB 880-108844/5-A	Method Blank	Total/NA	Solid	8021B	108844
LCS 880-108844/1-A	Lab Control Sample	Total/NA	Solid	8021B	108844
LCSD 880-108844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108844

Analysis Batch: 108990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	Total BTEX	
880-57400-2	C-29 2'	Total/NA	Solid	Total BTEX	
880-57400-3	C-28 2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 108843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	8015NM Prep	
880-57400-2	C-29 2'	Total/NA	Solid	8015NM Prep	
880-57400-3	C-28 2'	Total/NA	Solid	8015NM Prep	
MB 880-108843/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108843/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108843/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	8015B NM	108843
880-57400-2	C-29 2'	Total/NA	Solid	8015B NM	108843
880-57400-3	C-28 2'	Total/NA	Solid	8015B NM	108843
MB 880-108843/1-A	Method Blank	Total/NA	Solid	8015B NM	108843
LCS 880-108843/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108843
LCSD 880-108843/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108843

Analysis Batch: 109268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Total/NA	Solid	8015 NM	
880-57400-2	C-29 2'	Total/NA	Solid	8015 NM	
880-57400-3	C-28 2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

HPLC/IC

Leach Batch: 108884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Soluble	Solid	DI Leach	
880-57400-2	C-29 2'	Soluble	Solid	DI Leach	
880-57400-3	C-28 2'	Soluble	Solid	DI Leach	
MB 880-108884/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-108884/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-108884/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 108888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57400-1	C-30 2'	Soluble	Solid	300.0	108884
880-57400-2	C-29 2'	Soluble	Solid	300.0	108884
880-57400-3	C-28 2'	Soluble	Solid	300.0	108884
MB 880-108884/1-A	Method Blank	Soluble	Solid	300.0	108884
LCS 880-108884/2-A	Lab Control Sample	Soluble	Solid	300.0	108884
LCSD 880-108884/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	108884

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Client Sample ID: C-30 2'

Lab Sample ID: 880-57400-1
Matrix: Solid
Date Collected: 04/24/25 06:34
Date Received: 04/25/25 15:36

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	108844	04/28/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108911	04/29/25 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108990	04/29/25 12:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			109268	05/01/25 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	108843	04/28/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 15:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	108884	04/28/25 15:31	SI	EET MID
Soluble	Analysis	300.0		1			108888	04/29/25 01:10	CH	EET MID

Client Sample ID: C-29 2'

Lab Sample ID: 880-57400-2
Matrix: Solid
Date Collected: 04/24/25 06:39
Date Received: 04/25/25 15:36

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	108844	04/28/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108911	04/29/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108990	04/29/25 13:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			109268	05/01/25 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	108843	04/28/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 16:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	108884	04/28/25 15:31	SI	EET MID
Soluble	Analysis	300.0		1			108888	04/29/25 01:27	CH	EET MID

Client Sample ID: C-28 2'

Lab Sample ID: 880-57400-3
Matrix: Solid
Date Collected: 04/24/25 07:12
Date Received: 04/25/25 15:36

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	108844	04/28/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	108911	04/29/25 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			108990	04/29/25 13:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			109268	05/01/25 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108843	04/28/25 11:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 16:18	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	108884	04/28/25 15:31	SI	EET MID
Soluble	Analysis	300.0		1			108888	04/29/25 01:33	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

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	06-30-25

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: 880-57400-1
Project/Site: Gravitas SDG: 24-0117-02

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: Gravitas

Job ID: 880-57400-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57400-1	C-30 2'	Solid	04/24/25 06:34	04/25/25 15:36
880-57400-2	C-29 2'	Solid	04/24/25 06:39	04/25/25 15:36
880-57400-3	C-28 2'	Solid	04/24/25 07:12	04/25/25 15:36

No. 3261

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/24/25 PAGE 1 OF 1
PO#: LAB WORK ORDER#: 7400
PROJECT LOCATION OR NAME: GRAVITAS
LAI PROJECT #: 24-0117-02 COLLECTOR: IR

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 VOC ☐	TCLP - METALS (RCRA) ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-30 2'		4/24/25	6:34	S	1				X		X		X	X	X																										X				
C-29 2'		4/24/25	6:39	S	1				X		X		X	X	X																										X				
C-28 2'		4/24/25	7:12	S	1				X		X		X	X	X																										X				

880-57400 Chain of Custody

TOTAL 3

RELINQUISHED BY:(Signature) DATE/TIME 4/25/25 1536 RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 4.3 THERM#: IR5
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-57400-1
SDG Number: 24-0117-02

Login Number: 57400
List Number: 1
Creator: Vasquez, Julisa

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: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 5/9/2025 2:47:01 PM

JOB DESCRIPTION

Gravitas
24-0117-02

JOB NUMBER

880-57666-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

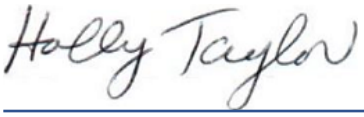
Eurofins Midland

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
5/9/2025 2:47:01 PM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Laboratory Job ID: 880-57666-1
SDG: 24-0117-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-57666-1
Project/Site: Gravitas SDG: 24-0117-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-57666-1
Project: Gravitas

Job ID: 880-57666-1 Eurofins Midland

Job Narrative
880-57666-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 sample was received on 5/2/2025 3:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.6°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: BF-1 0' (880-57666-1).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109483 and analytical batch 880-109714 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: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

Client Sample ID: BF-1 0'

Date Collected: 05/01/25 16:18
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57666-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/05/25 09:21	05/05/25 22:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/05/25 09:21	05/05/25 22:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/05/25 09:21	05/05/25 22:39	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/05/25 09:21	05/05/25 22:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/05/25 09:21	05/05/25 22:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/05/25 09:21	05/05/25 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:39*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:39*	*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			05/05/25 22:39	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			05/08/25 09:55	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		05/06/25 08:34	05/08/25 09:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 09:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*05/06/25 08:34*	*05/08/25 09:55*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 09:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		10.0		mg/Kg			05/05/25 12:25	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

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)
880-57666-1	BF-1 0'	109	88
880-57666-1 MS	BF-1 0'	117	89
880-57666-1 MSD	BF-1 0'	107	92
LCS 880-109390/1-A	Lab Control Sample	109	87
LCSD 880-109390/2-A	Lab Control Sample Dup	108	91
MB 880-109340/5-A	Method Blank	107	84
MB 880-109390/5-A	Method Blank	103	81

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)
880-57666-1	BF-1 0'	104	93
880-57666-1 MS	BF-1 0'	98	83
880-57666-1 MSD	BF-1 0'	96	82
LCS 880-109483/2-A	Lab Control Sample	111	94
LCSD 880-109483/3-A	Lab Control Sample Dup	98	82
MB 880-109483/1-A	Method Blank	140 S1+	124

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109340/5-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109340

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:15	05/05/25 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/02/25 13:15*	*05/05/25 11:20*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/02/25 13:15*	*05/05/25 11:20*	*1*

Lab Sample ID: MB 880-109390/5-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109390

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 09:21	05/05/25 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:18*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:18*	*1*

Lab Sample ID: LCS 880-109390/1-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07774		mg/Kg		78	70 - 130		
Toluene			0.100	0.08606		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08898		mg/Kg		89	70 - 130		
m,p-Xylenes			0.200	0.1829		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08715		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-109390/2-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08179		mg/Kg		82	70 - 130	5	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-109390/2-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08901		mg/Kg		89	70 - 130	3	35
Ethylbenzene			0.100	0.09189		mg/Kg		92	70 - 130	3	35
m,p-Xylenes			0.200	0.1903		mg/Kg		95	70 - 130	4	35
o-Xylene			0.100	0.09067		mg/Kg		91	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-57666-1 MS
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: BF-1 0'
Prep Type: Total/NA
Prep Batch: 109390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.07590		mg/Kg		76	70 - 130
Toluene	<0.00198	U	0.100	0.08695		mg/Kg		87	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.09107		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00396	U	0.200	0.1893		mg/Kg		95	70 - 130
o-Xylene	<0.00198	U	0.100	0.08905		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-57666-1 MSD
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: BF-1 0'
Prep Type: Total/NA
Prep Batch: 109390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.08150		mg/Kg		82	70 - 130	7	35
Toluene	<0.00198	U	0.100	0.08999		mg/Kg		90	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.09356		mg/Kg		94	70 - 130	3	35
m,p-Xylenes	<0.00396	U	0.200	0.1914		mg/Kg		96	70 - 130	1	35
o-Xylene	<0.00198	U	0.100	0.08917		mg/Kg		89	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

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

Lab Sample ID: MB 880-109483/1-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109483

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		05/06/25 08:34	05/08/25 02:58	1

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

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

Lab Sample ID: MB 880-109483/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

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		05/06/25 08:34	05/08/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*

Lab Sample ID: LCS 880-109483/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-109483/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.8		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	881.2		mg/Kg		88	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Lab Sample ID: 880-57666-1 MS — **Client Sample ID: BF-1 0'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	909.6		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.2		mg/Kg		88	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*98*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

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

Lab Sample ID: 880-57666-1 MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: BF-1 0'
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.5		mg/Kg		89	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109420/1-A
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/05/25 12:08	1

Lab Sample ID: LCS 880-109420/2-A
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-109420/3-A
Matrix: Solid
Analysis Batch: 109430

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	252.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-57666-1 MS
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: BF-1 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	153		251	414.6		mg/Kg		104	90 - 110		

Lab Sample ID: 880-57666-1 MSD
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: BF-1 0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	153		251	416.2		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57666-1
Project/Site: Gravitas SDG: 24-0117-02

GC VOA

Prep Batch: 109340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-109340/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 109373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	8021B	109390
MB 880-109340/5-A	Method Blank	Total/NA	Solid	8021B	109340
MB 880-109390/5-A	Method Blank	Total/NA	Solid	8021B	109390
LCS 880-109390/1-A	Lab Control Sample	Total/NA	Solid	8021B	109390
LCSD 880-109390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109390
880-57666-1 MS	BF-1 0'	Total/NA	Solid	8021B	109390
880-57666-1 MSD	BF-1 0'	Total/NA	Solid	8021B	109390

Prep Batch: 109390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	5035	
MB 880-109390/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109390/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109390/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57666-1 MS	BF-1 0'	Total/NA	Solid	5035	
880-57666-1 MSD	BF-1 0'	Total/NA	Solid	5035	

Analysis Batch: 109523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	8015NM Prep	
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57666-1 MS	BF-1 0'	Total/NA	Solid	8015NM Prep	
880-57666-1 MSD	BF-1 0'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	8015B NM	109483
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015B NM	109483
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109483
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109483
880-57666-1 MS	BF-1 0'	Total/NA	Solid	8015B NM	109483
880-57666-1 MSD	BF-1 0'	Total/NA	Solid	8015B NM	109483

Analysis Batch: 109809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

HPLC/IC

Leach Batch: 109420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Soluble	Solid	DI Leach	
MB 880-109420/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109420/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109420/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57666-1 MS	BF-1 0'	Soluble	Solid	DI Leach	
880-57666-1 MSD	BF-1 0'	Soluble	Solid	DI Leach	

Analysis Batch: 109430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57666-1	BF-1 0'	Soluble	Solid	300.0	109420
MB 880-109420/1-A	Method Blank	Soluble	Solid	300.0	109420
LCS 880-109420/2-A	Lab Control Sample	Soluble	Solid	300.0	109420
LCSD 880-109420/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109420
880-57666-1 MS	BF-1 0'	Soluble	Solid	300.0	109420
880-57666-1 MSD	BF-1 0'	Soluble	Solid	300.0	109420

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

Client Sample ID: BF-1 0'
Date Collected: 05/01/25 16:18
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57666-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/05/25 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109523	05/05/25 22:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			109809	05/08/25 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 09:55	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 12:25	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-57666-1
Project/Site: Gravitas SDG: 24-0117-02

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	06-30-25

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: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

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: Gravitas

Job ID: 880-57666-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57666-1	BF-1 0'	Solid	05/01/25 16:18	05/02/25 15:11

No. 3263

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 5-2-25 PAGE 1 OF 1

PO#: _____ LAB WORK ORDER#: 76604

PROJECT LOCATION OR NAME: GRAVITAS

LAI PROJECT #: 24-0117-02 COLLECTOR: IR

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 | UNPRESSERVED

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH 418.1	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDE	FIELD NOTES
BF-1 0'		5/1/25	4:18 P.M.		1				X		X		X	X	X	X	
TOTAL 1																	

880-57666 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	5/2/25 1511	[signature]
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0.5/-0.6 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-57666-1
SDG Number: 24-0117-02

Login Number: 57666
List Number: 1
Creator: Vasquez, Julisa

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: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 5/8/2025 1:28:38 PM

JOB DESCRIPTION

Gravitas
24-0117-02

JOB NUMBER

880-57667-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
5/8/2025 1:28:38 PM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Laboratory Job ID: 880-57667-1
SDG: 24-0117-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-57667-1
Project: Gravitas

Job ID: 880-57667-1 Eurofins Midland

Job Narrative
880-57667-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 5/2/2025 3:11 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 -0.6°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109501 and analytical batch 880-109480 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109384 and analytical batch 880-109480 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-109501 and analytical batch 880-109480 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109379 and analytical batch 880-109646 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-109379/2-A) and (LCSD 880-109379/3-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. Job ID: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

Client Sample ID: C-25 2'
Lab Sample ID: 880-57667-1
Date Collected: 05/02/25 06:12 **Matrix: Solid**
Date Received: 05/02/25 15:11

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		05/05/25 09:21	05/06/25 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 00:21	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/05/25 09:21	05/06/25 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 00:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/05/25 09:21	05/06/25 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/05/25 09:21*	*05/06/25 00:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/05/25 09:21*	*05/06/25 00:21*	*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			05/06/25 00:21	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			05/08/25 00:37	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		05/05/25 08:37	05/08/25 00:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/05/25 08:37	05/08/25 00:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/05/25 08:37	05/08/25 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*05/05/25 08:37*	*05/08/25 00:37*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/05/25 08:37*	*05/08/25 00:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.3**		10.1		mg/Kg			05/05/25 12:42	1

Client Sample ID: C-26 2'
Lab Sample ID: 880-57667-2
Date Collected: 05/02/25 06:21 **Matrix: Solid**
Date Received: 05/02/25 15:11

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		05/05/25 09:21	05/06/25 00:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/05/25 09:21	05/06/25 00:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/05/25 09:21	05/06/25 00:42	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/05/25 09:21	05/06/25 00:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/05/25 09:21	05/06/25 00:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/05/25 09:21	05/06/25 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/05/25 09:21*	*05/06/25 00:42*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/05/25 09:21*	*05/06/25 00:42*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-26 2'

Date Collected: 05/02/25 06:21
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/25 00:42	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			05/08/25 00:55	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		05/05/25 08:37	05/08/25 00:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 00:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*05/05/25 08:37*	*05/08/25 00:55*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/05/25 08:37*	*05/08/25 00:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		9.96		mg/Kg			05/05/25 12:47	1

Client Sample ID: C-27 2'

Date Collected: 05/02/25 06:29
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-3
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		05/05/25 09:21	05/06/25 01:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/05/25 09:21	05/06/25 01:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/05/25 09:21	05/06/25 01:02	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/05/25 09:21	05/06/25 01:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/05/25 09:21	05/06/25 01:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/05/25 09:21	05/06/25 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:02*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:02*	*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			05/06/25 01:02	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			05/08/25 01:10	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		05/05/25 08:37	05/08/25 01:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 01:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

Client Sample ID: C-27 2'
Lab Sample ID: 880-57667-3
Date Collected: 05/02/25 06:29 **Matrix: Solid**
Date Received: 05/02/25 15:11

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:10*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		9.94		mg/Kg			05/05/25 12:53	1

Client Sample ID: C-32 2.5'
Lab Sample ID: 880-57667-4
Date Collected: 05/02/25 05:30 **Matrix: Solid**
Date Received: 05/02/25 15:11

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		05/05/25 09:21	05/06/25 01:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/05/25 09:21	05/06/25 01:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/05/25 09:21	05/06/25 01:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/05/25 09:21	05/06/25 01:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/05/25 09:21	05/06/25 01:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/05/25 09:21	05/06/25 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:23*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:23*	*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			05/06/25 01:23	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			05/08/25 01:27	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		05/05/25 08:37	05/08/25 01:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/08/25 01:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/08/25 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:27*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		9.98		mg/Kg			05/05/25 12:59	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-34 0-2'

Date Collected: 05/02/25 05:38
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-5

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		05/05/25 09:21	05/06/25 01:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 01:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 01:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/05/25 09:21	05/06/25 01:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/06/25 01:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/05/25 09:21	05/06/25 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:43*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/05/25 09:21*	*05/06/25 01:43*	*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			05/06/25 01:43	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			05/08/25 01:42	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		05/05/25 08:37	05/08/25 01:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 01:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:42*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		10.1		mg/Kg			05/05/25 13:16	1

Client Sample ID: C-35 0-2'

Date Collected: 05/02/25 05:42
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1 F2	0.00198		mg/Kg		05/06/25 10:43	05/07/25 00:01	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		05/06/25 10:43	05/07/25 00:01	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		05/06/25 10:43	05/07/25 00:01	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		05/06/25 10:43	05/07/25 00:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 10:43	05/07/25 00:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 10:43	05/07/25 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:01*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:01*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-35 0-2'

Date Collected: 05/02/25 05:42
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 00:01	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			05/08/25 01:59	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		05/05/25 08:37	05/08/25 01:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/08/25 01:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/05/25 08:37	05/08/25 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:59*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/05/25 08:37*	*05/08/25 01:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		10.1		mg/Kg			05/05/25 13:21	1

Client Sample ID: C-36 0-2'

Date Collected: 05/02/25 05:47
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:22	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/06/25 10:43	05/07/25 00:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 10:43	05/07/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:22*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:22*	*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			05/07/25 00:22	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			05/08/25 02:14	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		05/05/25 08:37	05/08/25 02:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 02:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-36 0-2'

Date Collected: 05/02/25 05:47
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-7
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)	<50.0	U	50.0		mg/Kg		05/05/25 08:37	05/08/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*05/05/25 08:37*	*05/08/25 02:14*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*05/05/25 08:37*	*05/08/25 02:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		9.90		mg/Kg			05/05/25 13:27	1

Client Sample ID: C-37 0-2'

Date Collected: 05/02/25 05:56
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-8
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		05/06/25 10:43	05/07/25 00:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:43	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/06/25 10:43	05/07/25 00:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 10:43	05/07/25 00:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/06/25 10:43	05/07/25 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:43*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/06/25 10:43*	*05/07/25 00:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/07/25 00:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**387**		49.8		mg/Kg			05/08/25 02:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 02:30	1
Diesel Range Organics (Over C10-C28)	**387**		49.8		mg/Kg		05/05/25 08:37	05/08/25 02:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/05/25 08:37	05/08/25 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*05/05/25 08:37*	*05/08/25 02:30*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*05/05/25 08:37*	*05/08/25 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		9.90		mg/Kg			05/05/25 13:33	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

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)
880-57667-1	C-25 2'	107	89
880-57667-2	C-26 2'	107	84
880-57667-3	C-27 2'	111	86
880-57667-4	C-32 2.5'	107	86
880-57667-5	C-34 0-2'	105	86
880-57667-6	C-35 0-2'	93	104
880-57667-6 MS	C-35 0-2'	103	99
880-57667-6 MSD	C-35 0-2'	93	101
880-57667-7	C-36 0-2'	117	120
880-57667-8	C-37 0-2'	114	109
LCS 880-109390/1-A	Lab Control Sample	109	87
LCS 880-109501/1-A	Lab Control Sample	85	96
LCSD 880-109390/2-A	Lab Control Sample Dup	108	91
LCSD 880-109501/2-A	Lab Control Sample Dup	96	95
MB 880-109340/5-A	Method Blank	107	84
MB 880-109384/5-A	Method Blank	154 S1+	97
MB 880-109390/5-A	Method Blank	103	81
MB 880-109501/5-A	Method Blank	149 S1+	94

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)
880-57667-1	C-25 2'	101	91
880-57667-2	C-26 2'	100	89
880-57667-3	C-27 2'	101	91
880-57667-4	C-32 2.5'	103	96
880-57667-5	C-34 0-2'	96	88
880-57667-6	C-35 0-2'	98	91
880-57667-7	C-36 0-2'	98	88
880-57667-8	C-37 0-2'	98	94
LCS 880-109379/2-A	Lab Control Sample	145 S1+	142 S1+
LCSD 880-109379/3-A	Lab Control Sample Dup	147 S1+	144 S1+
MB 880-109379/1-A	Method Blank	152 S1+	137 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109340/5-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109340

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:15	05/05/25 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:15	05/05/25 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/02/25 13:15*	*05/05/25 11:20*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/02/25 13:15*	*05/05/25 11:20*	*1*

Lab Sample ID: MB 880-109384/5-A
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109384

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:02	05/06/25 11:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:02	05/06/25 11:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:02	05/06/25 11:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/05/25 09:02	05/06/25 11:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:02	05/06/25 11:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 09:02	05/06/25 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*05/05/25 09:02*	*05/06/25 11:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/05/25 09:02*	*05/06/25 11:57*	*1*

Lab Sample ID: MB 880-109390/5-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109390

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/25 09:21	05/05/25 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/25 09:21	05/05/25 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:18*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/05/25 09:21*	*05/05/25 22:18*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

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

Lab Sample ID: LCS 880-109390/1-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07774		mg/Kg		78	70 - 130		
Toluene			0.100	0.08606		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08898		mg/Kg		89	70 - 130		
m,p-Xylenes			0.200	0.1829		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08715		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-109390/2-A
Matrix: Solid
Analysis Batch: 109373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08179		mg/Kg		82	70 - 130	5	35
Toluene			0.100	0.08901		mg/Kg		89	70 - 130	3	35
Ethylbenzene			0.100	0.09189		mg/Kg		92	70 - 130	3	35
m,p-Xylenes			0.200	0.1903		mg/Kg		95	70 - 130	4	35
o-Xylene			0.100	0.09067		mg/Kg		91	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-109501/5-A
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 10:43	05/06/25 23:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 10:43	05/06/25 23:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 10:43	05/06/25 23:33	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/06/25 10:43	05/06/25 23:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 10:43	05/06/25 23:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 10:43	05/06/25 23:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*05/06/25 10:43*	*05/06/25 23:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/06/25 10:43*	*05/06/25 23:33*	*1*

Lab Sample ID: LCS 880-109501/1-A
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09681		mg/Kg		97	70 - 130		
Toluene			0.100	0.08604		mg/Kg		86	70 - 130		

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

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

Lab Sample ID: LCS 880-109501/1-A
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			0.100	0.08771		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1630		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08621		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-109501/2-A
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1022		mg/Kg		102	70 - 130	5	35
Toluene			0.100	0.09362		mg/Kg		94	70 - 130	8	35
Ethylbenzene			0.100	0.09930		mg/Kg		99	70 - 130	12	35
m,p-Xylenes			0.200	0.1946		mg/Kg		97	70 - 130	18	35
o-Xylene			0.100	0.1026		mg/Kg		103	70 - 130	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-57667-6 MS
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: C-35 0-2'
Prep Type: Total/NA
Prep Batch: 109501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1 F2	0.100	0.06821	F1	mg/Kg		68	70 - 130		
Toluene	<0.00198	U F1	0.100	0.05930	F1	mg/Kg		59	70 - 130		
Ethylbenzene	<0.00198	U F1	0.100	0.06218	F1	mg/Kg		62	70 - 130		
m,p-Xylenes	<0.00396	U	0.200	0.1399		mg/Kg		70	70 - 130		
o-Xylene	<0.00198	U	0.100	0.07840		mg/Kg		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-57667-6 MSD
Matrix: Solid
Analysis Batch: 109480

Client Sample ID: C-35 0-2'
Prep Type: Total/NA
Prep Batch: 109501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1 F2	0.100	0.09856	F2	mg/Kg		99	70 - 130	36	35
Toluene	<0.00198	U F1	0.100	0.08399		mg/Kg		84	70 - 130	34	35
Ethylbenzene	<0.00198	U F1	0.100	0.08551		mg/Kg		86	70 - 130	32	35
m,p-Xylenes	<0.00396	U	0.200	0.1647		mg/Kg		82	70 - 130	16	35
o-Xylene	<0.00198	U	0.100	0.08698		mg/Kg		87	70 - 130	10	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-109379/1-A
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109379

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		05/05/25 08:36	05/07/25 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/05/25 08:36	05/07/25 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/05/25 08:36	05/07/25 19:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	152	S1+	70 - 130	05/05/25 08:36	05/07/25 19:49	1
o-Terphenyl (Surr)	137	S1+	70 - 130	05/05/25 08:36	05/07/25 19:49	1

Lab Sample ID: LCS 880-109379/2-A
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109379

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1114		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1235		mg/Kg		124	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	145	S1+	70 - 130
o-Terphenyl (Surr)	142	S1+	70 - 130

Lab Sample ID: LCSD 880-109379/3-A
Matrix: Solid
Analysis Batch: 109646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1125		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1270		mg/Kg		127	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	147	S1+	70 - 130
o-Terphenyl (Surr)	144	S1+	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109420/1-A
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/05/25 12:08	1

Lab Sample ID: LCS 880-109420/2-A
Matrix: Solid
Analysis Batch: 109430

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-109420/3-A
Matrix: Solid
Analysis Batch: 109430

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	252.0		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

GC VOA

Prep Batch: 109340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-109340/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 109373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	8021B	109390
880-57667-2	C-26 2'	Total/NA	Solid	8021B	109390
880-57667-3	C-27 2'	Total/NA	Solid	8021B	109390
880-57667-4	C-32 2.5'	Total/NA	Solid	8021B	109390
880-57667-5	C-34 0-2'	Total/NA	Solid	8021B	109390
MB 880-109340/5-A	Method Blank	Total/NA	Solid	8021B	109340
MB 880-109390/5-A	Method Blank	Total/NA	Solid	8021B	109390
LCS 880-109390/1-A	Lab Control Sample	Total/NA	Solid	8021B	109390
LCSD 880-109390/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109390

Prep Batch: 109384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-109384/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 109390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	5035	
880-57667-2	C-26 2'	Total/NA	Solid	5035	
880-57667-3	C-27 2'	Total/NA	Solid	5035	
880-57667-4	C-32 2.5'	Total/NA	Solid	5035	
880-57667-5	C-34 0-2'	Total/NA	Solid	5035	
MB 880-109390/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109390/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109390/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 109480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-6	C-35 0-2'	Total/NA	Solid	8021B	109501
880-57667-7	C-36 0-2'	Total/NA	Solid	8021B	109501
880-57667-8	C-37 0-2'	Total/NA	Solid	8021B	109501
MB 880-109384/5-A	Method Blank	Total/NA	Solid	8021B	109384
MB 880-109501/5-A	Method Blank	Total/NA	Solid	8021B	109501
LCS 880-109501/1-A	Lab Control Sample	Total/NA	Solid	8021B	109501
LCSD 880-109501/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109501
880-57667-6 MS	C-35 0-2'	Total/NA	Solid	8021B	109501
880-57667-6 MSD	C-35 0-2'	Total/NA	Solid	8021B	109501

Prep Batch: 109501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-6	C-35 0-2'	Total/NA	Solid	5035	
880-57667-7	C-36 0-2'	Total/NA	Solid	5035	
880-57667-8	C-37 0-2'	Total/NA	Solid	5035	
MB 880-109501/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109501/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109501/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57667-6 MS	C-35 0-2'	Total/NA	Solid	5035	
880-57667-6 MSD	C-35 0-2'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

GC VOA

Analysis Batch: 109525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	Total BTEX	
880-57667-2	C-26 2'	Total/NA	Solid	Total BTEX	
880-57667-3	C-27 2'	Total/NA	Solid	Total BTEX	
880-57667-4	C-32 2.5'	Total/NA	Solid	Total BTEX	
880-57667-5	C-34 0-2'	Total/NA	Solid	Total BTEX	
880-57667-6	C-35 0-2'	Total/NA	Solid	Total BTEX	
880-57667-7	C-36 0-2'	Total/NA	Solid	Total BTEX	
880-57667-8	C-37 0-2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	8015NM Prep	
880-57667-2	C-26 2'	Total/NA	Solid	8015NM Prep	
880-57667-3	C-27 2'	Total/NA	Solid	8015NM Prep	
880-57667-4	C-32 2.5'	Total/NA	Solid	8015NM Prep	
880-57667-5	C-34 0-2'	Total/NA	Solid	8015NM Prep	
880-57667-6	C-35 0-2'	Total/NA	Solid	8015NM Prep	
880-57667-7	C-36 0-2'	Total/NA	Solid	8015NM Prep	
880-57667-8	C-37 0-2'	Total/NA	Solid	8015NM Prep	
MB 880-109379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	8015B NM	109379
880-57667-2	C-26 2'	Total/NA	Solid	8015B NM	109379
880-57667-3	C-27 2'	Total/NA	Solid	8015B NM	109379
880-57667-4	C-32 2.5'	Total/NA	Solid	8015B NM	109379
880-57667-5	C-34 0-2'	Total/NA	Solid	8015B NM	109379
880-57667-6	C-35 0-2'	Total/NA	Solid	8015B NM	109379
880-57667-7	C-36 0-2'	Total/NA	Solid	8015B NM	109379
880-57667-8	C-37 0-2'	Total/NA	Solid	8015B NM	109379
MB 880-109379/1-A	Method Blank	Total/NA	Solid	8015B NM	109379
LCS 880-109379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109379
LCSD 880-109379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109379

Analysis Batch: 109726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Total/NA	Solid	8015 NM	
880-57667-2	C-26 2'	Total/NA	Solid	8015 NM	
880-57667-3	C-27 2'	Total/NA	Solid	8015 NM	
880-57667-4	C-32 2.5'	Total/NA	Solid	8015 NM	
880-57667-5	C-34 0-2'	Total/NA	Solid	8015 NM	
880-57667-6	C-35 0-2'	Total/NA	Solid	8015 NM	
880-57667-7	C-36 0-2'	Total/NA	Solid	8015 NM	
880-57667-8	C-37 0-2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

HPLC/IC

Leach Batch: 109420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Soluble	Solid	DI Leach	
880-57667-2	C-26 2'	Soluble	Solid	DI Leach	
880-57667-3	C-27 2'	Soluble	Solid	DI Leach	
880-57667-4	C-32 2.5'	Soluble	Solid	DI Leach	
880-57667-5	C-34 0-2'	Soluble	Solid	DI Leach	
880-57667-6	C-35 0-2'	Soluble	Solid	DI Leach	
880-57667-7	C-36 0-2'	Soluble	Solid	DI Leach	
880-57667-8	C-37 0-2'	Soluble	Solid	DI Leach	
MB 880-109420/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109420/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109420/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 109430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57667-1	C-25 2'	Soluble	Solid	300.0	109420
880-57667-2	C-26 2'	Soluble	Solid	300.0	109420
880-57667-3	C-27 2'	Soluble	Solid	300.0	109420
880-57667-4	C-32 2.5'	Soluble	Solid	300.0	109420
880-57667-5	C-34 0-2'	Soluble	Solid	300.0	109420
880-57667-6	C-35 0-2'	Soluble	Solid	300.0	109420
880-57667-7	C-36 0-2'	Soluble	Solid	300.0	109420
880-57667-8	C-37 0-2'	Soluble	Solid	300.0	109420
MB 880-109420/1-A	Method Blank	Soluble	Solid	300.0	109420
LCS 880-109420/2-A	Lab Control Sample	Soluble	Solid	300.0	109420
LCSD 880-109420/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109420

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-25 2'
Date Collected: 05/02/25 06:12
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-1
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	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/06/25 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/06/25 00:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 00:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 00:37	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 12:42	SMC	EET MID

Client Sample ID: C-26 2'
Date Collected: 05/02/25 06:21
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-2
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			4.98 g	5 mL	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/06/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/06/25 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 00:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 00:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 12:47	SMC	EET MID

Client Sample ID: C-27 2'
Date Collected: 05/02/25 06:29
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-3
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			4.95 g	5 mL	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/06/25 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/06/25 01:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 01:10	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 12:53	SMC	EET MID

Client Sample ID: C-32 2.5'
Date Collected: 05/02/25 05:30
Date Received: 05/02/25 15:11

Lab Sample ID: 880-57667-4
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	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/06/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/06/25 01:23	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-32 2.5'

Lab Sample ID: 880-57667-4
Matrix: Solid
Date Collected: 05/02/25 05:30
Date Received: 05/02/25 15:11

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			109726	05/08/25 01:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 01:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 12:59	SMC	EET MID

Client Sample ID: C-34 0-2'

Lab Sample ID: 880-57667-5
Matrix: Solid
Date Collected: 05/02/25 05:38
Date Received: 05/02/25 15:11

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	109390	05/05/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109373	05/06/25 01:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/06/25 01:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 01:42	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 13:16	SMC	EET MID

Client Sample ID: C-35 0-2'

Lab Sample ID: 880-57667-6
Matrix: Solid
Date Collected: 05/02/25 05:42
Date Received: 05/02/25 15:11

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	109501	05/06/25 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109480	05/07/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/07/25 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 01:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 13:21	SMC	EET MID

Client Sample ID: C-36 0-2'

Lab Sample ID: 880-57667-7
Matrix: Solid
Date Collected: 05/02/25 05:47
Date Received: 05/02/25 15:11

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	109501	05/06/25 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109480	05/07/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/07/25 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 02:14	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Client Sample ID: C-36 0-2'

Lab Sample ID: 880-57667-7

Date Collected: 05/02/25 05:47
Matrix: Solid
Date Received: 05/02/25 15:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 13:27	SMC	EET MID

Client Sample ID: C-37 0-2'

Lab Sample ID: 880-57667-8

Date Collected: 05/02/25 05:56
Matrix: Solid
Date Received: 05/02/25 15:11

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	109501	05/06/25 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109480	05/07/25 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109525	05/07/25 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			109726	05/08/25 02:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109379	05/05/25 08:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109646	05/08/25 02:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109420	05/05/25 10:29	SA	EET MID
Soluble	Analysis	300.0		1			109430	05/05/25 13:33	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

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	06-30-25

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: 880-57667-1
Project/Site: Gravitas SDG: 24-0117-02

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: Gravitas

Job ID: 880-57667-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57667-1	C-25 2'	Solid	05/02/25 06:12	05/02/25 15:11
880-57667-2	C-26 2'	Solid	05/02/25 06:21	05/02/25 15:11
880-57667-3	C-27 2'	Solid	05/02/25 06:29	05/02/25 15:11
880-57667-4	C-32 2.5'	Solid	05/02/25 05:30	05/02/25 15:11
880-57667-5	C-34 0-2'	Solid	05/02/25 05:38	05/02/25 15:11
880-57667-6	C-35 0-2'	Solid	05/02/25 05:42	05/02/25 15:11
880-57667-7	C-36 0-2'	Solid	05/02/25 05:47	05/02/25 15:11
880-57667-8	C-37 0-2'	Solid	05/02/25 05:56	05/02/25 15:11

No. 3262

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 5/2/25 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 76687

PROJECT LOCATION OR NAME: GRAVITAS

LAI PROJECT #: 24-0117-02 COLLECTOR: JR

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 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-25 2'		5/2/25	6:12 AM	S	1				X		X		X	X	X															X	
C-26 2'			6:21 AM																												
C-27 2'			6:29 AM																												
C-32 2.5'			5:30 MNT A.M																												
C-34 0-2'			5:38 AM																												
C-35 0-2'			5:42 AM																												
C-36 0-3'			5:47 AM																												
C-37 0-2'			5:56 AM																												
TOTAL 8																															

880-57667 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME 5/2/25	RECEIVED BY: (Signature) 1511
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
LABORATORY: EUROFINS		

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

LABORATORY USE ONLY:
RECEIVING TEMP: -0.5/-0.4 THERM#: IR9
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-57667-1
SDG Number: 24-0117-02

Login Number: 57667
List Number: 1
Creator: Vasquez, Julisa

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: Brenda Balbino
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 5/23/2025 10:15:53 AM

JOB DESCRIPTION

Gravitas Spill 3
24-0117-02

JOB NUMBER

880-58277-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
5/23/2025 10:15:53 AM

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

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Laboratory Job ID: 880-58277-1
SDG: 24-0117-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: 880-58277-1
Project: Gravitas Spill 3

Job ID: 880-58277-1 Eurofins Midland

Job Narrative
880-58277-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 5/16/2025 5:07 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 1.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-24 1' (880-58277-1), C-23 1' (880-58277-2), C-22 1' (880-58277-3), C-19 1' (880-58277-4), C-18 1' (880-58277-5), C-15 1' (880-58277-6), C-14 1' (880-58277-7), C-13 1' (880-58277-8) and C-37 0-2.5' (880-58277-9).

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

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

Client Sample ID: C-24 1'
Lab Sample ID: 880-58277-1
Date Collected: 05/16/25 08:05 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:26	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/19/25 10:00*	*05/19/25 18:26*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/19/25 10:00*	*05/19/25 18:26*	*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			05/19/25 18:26	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			05/22/25 15:46	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		05/16/25 14:11	05/22/25 15:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/25 14:11	05/22/25 15:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/25 14:11	05/22/25 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*05/16/25 14:11*	*05/22/25 15:46*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*05/16/25 14:11*	*05/22/25 15:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1210**		50.1		mg/Kg			05/19/25 20:20	5

Client Sample ID: C-23 1'
Lab Sample ID: 880-58277-2
Date Collected: 05/16/25 08:11 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:46	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/19/25 10:00	05/19/25 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 18:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/19/25 10:00	05/19/25 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/19/25 10:00*	*05/19/25 18:46*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/19/25 10:00*	*05/19/25 18:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

Client Sample ID: C-23 1'
Lab Sample ID: 880-58277-2
Date Collected: 05/16/25 08:11 **Matrix: Solid**
Date Received: 05/16/25 17:07

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			05/19/25 18:46	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			05/22/25 16:35	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		05/16/25 14:11	05/22/25 16:35	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 16:35	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/16/25 14:11	05/22/25 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*05/16/25 14:11*	*05/22/25 16:35*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/16/25 14:11*	*05/22/25 16:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		9.90		mg/Kg			05/19/25 20:26	1

Client Sample ID: C-22 1'
Lab Sample ID: 880-58277-3
Date Collected: 05/16/25 08:20 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 19:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:07	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/19/25 10:00	05/19/25 19:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/19/25 10:00	05/19/25 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:07*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:07*	*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			05/19/25 19:07	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			05/22/25 16:51	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		05/16/25 14:11	05/22/25 16:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/16/25 14:11	05/22/25 16:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-22 1'

Lab Sample ID: 880-58277-3
Date Collected: 05/16/25 08:20
Matrix: Solid
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/25 14:11	05/22/25 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/16/25 14:11*	*05/22/25 16:51*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/16/25 14:11*	*05/22/25 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**309**		10.1		mg/Kg			05/19/25 20:47	1

Client Sample ID: C-19 1'

Lab Sample ID: 880-58277-4
Date Collected: 05/16/25 08:38
Matrix: Solid
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 19:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/19/25 10:00	05/19/25 19:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/19/25 10:00	05/19/25 19:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/19/25 10:00	05/19/25 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:27*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:27*	*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			05/19/25 19:27	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			05/22/25 17:07	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		05/16/25 14:11	05/22/25 17:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 17:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:07*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		9.94		mg/Kg			05/19/25 20:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-18 1'

Lab Sample ID: 880-58277-5
Matrix: Solid
Date Collected: 05/16/25 08:42
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 19:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 19:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 19:48	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 19:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 19:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/19/25 10:00*	*05/19/25 19:48*	*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			05/19/25 19:48	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			05/22/25 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		05/16/25 14:11	05/22/25 17:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 17:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:23*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.98		mg/Kg			05/19/25 21:00	1

Client Sample ID: C-15 1'

Lab Sample ID: 880-58277-6
Matrix: Solid
Date Collected: 05/16/25 08:58
Date Received: 05/16/25 17:07

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		05/19/25 10:00	05/19/25 20:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:00	05/19/25 20:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:00	05/19/25 20:08	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/19/25 10:00	05/19/25 20:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:00	05/19/25 20:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/19/25 10:00	05/19/25 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/19/25 10:00*	*05/19/25 20:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/19/25 10:00*	*05/19/25 20:08*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-15 1'

Lab Sample ID: 880-58277-6
Matrix: Solid
Date Collected: 05/16/25 08:58
Date Received: 05/16/25 17:07

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			05/19/25 20:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/22/25 17:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/16/25 14:11	05/22/25 17:40	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/16/25 14:11	05/22/25 17:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/16/25 14:11	05/22/25 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:40*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.1**		10.1		mg/Kg			05/19/25 21:07	1

Client Sample ID: C-14 1'

Lab Sample ID: 880-58277-7
Matrix: Solid
Date Collected: 05/16/25 09:10
Date Received: 05/16/25 17:07

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		05/19/25 10:09	05/19/25 14:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:37	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/19/25 10:09	05/19/25 14:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/19/25 10:09	05/19/25 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/19/25 10:09*	*05/19/25 14:37*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/19/25 10:09*	*05/19/25 14:37*	*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			05/19/25 14:37	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			05/22/25 17:56	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	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 17:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 17:56	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

Client Sample ID: C-14 1' Lab Sample ID: 880-58277-7

Date Collected: 05/16/25 09:10 **Matrix: Solid**
Date Received: 05/16/25 17:07

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/16/25 14:11	05/22/25 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:56*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*05/16/25 14:11*	*05/22/25 17:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**281**		9.98		mg/Kg			05/19/25 21:14	1

Client Sample ID: C-13 1' Lab Sample ID: 880-58277-8

Date Collected: 05/16/25 09:12 **Matrix: Solid**
Date Received: 05/16/25 17:07

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		05/19/25 10:09	05/19/25 14:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:58	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/19/25 10:09	05/19/25 14:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/25 10:09	05/19/25 14:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/19/25 10:09	05/19/25 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/19/25 10:09*	*05/19/25 14:58*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/19/25 10:09*	*05/19/25 14:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/19/25 14:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/22/25 18:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/16/25 14:11	05/22/25 18:13	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/16/25 14:11	05/22/25 18:13	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/16/25 14:11	05/22/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:13*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**238**		10.0		mg/Kg			05/19/25 21:21	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-37 0-2.5'

Date Collected: 05/14/25 11:28
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58277-9

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		05/19/25 10:09	05/19/25 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 16:32	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/19/25 10:09	05/19/25 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 16:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 10:09	05/19/25 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/19/25 10:09*	*05/19/25 16:32*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/19/25 10:09*	*05/19/25 16:32*	*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			05/19/25 16:32	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			05/22/25 18:29	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		05/16/25 14:11	05/22/25 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:11	05/22/25 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:29*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*05/16/25 14:11*	*05/22/25 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		9.98		mg/Kg			05/19/25 21:41	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

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)
880-56959-A-22-D MB	Method Blank	101	90
880-58277-1	C-24 1'	102	90
880-58277-2	C-23 1'	101	95
880-58277-3	C-22 1'	92	93
880-58277-4	C-19 1'	98	94
880-58277-5	C-18 1'	98	91
880-58277-6	C-15 1'	96	100
880-58277-7	C-14 1'	103	83
880-58277-8	C-13 1'	104	83
880-58277-9	C-37 0-2.5'	103	82
LCS 880-110422/1-A	Lab Control Sample	90	105
LCS 880-110423/1-A	Lab Control Sample	96	100
LCSD 880-110422/2-A	Lab Control Sample Dup	91	100
LCSD 880-110423/2-A	Lab Control Sample Dup	108	93
MB 880-110422/5-A	Method Blank	89	88
MB 880-110423/5-A	Method Blank	109	77

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)
880-58277-1	C-24 1'	111	99
880-58277-1 MS	C-24 1'	96	98
880-58277-1 MSD	C-24 1'	98	97
880-58277-2	C-23 1'	109	97
880-58277-3	C-22 1'	108	97
880-58277-4	C-19 1'	108	98
880-58277-5	C-18 1'	112	101
880-58277-6	C-15 1'	108	98
880-58277-7	C-14 1'	111	101
880-58277-8	C-13 1'	108	97
880-58277-9	C-37 0-2.5'	110	100
LCS 880-110350/2-A	Lab Control Sample	99	102
LCSD 880-110350/3-A	Lab Control Sample Dup	115	117
MB 880-110350/1-A	Method Blank	90	81

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-56959-A-22-D MB
Matrix: Solid
Analysis Batch: 110408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110422

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 17:04	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 17:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 10:00	05/19/25 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/19/25 10:00*	*05/19/25 17:04*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/19/25 10:00*	*05/19/25 17:04*	*1*

Lab Sample ID: MB 880-110422/5-A
Matrix: Solid
Analysis Batch: 110408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110422

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 11:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/19/25 10:00	05/19/25 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:00	05/19/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 10:00	05/19/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/19/25 10:00*	*05/19/25 11:29*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/19/25 10:00*	*05/19/25 11:29*	*1*

Lab Sample ID: LCS 880-110422/1-A
Matrix: Solid
Analysis Batch: 110408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08018		mg/Kg		80	70 - 130		
Toluene			0.100	0.07415		mg/Kg		74	70 - 130		
Ethylbenzene			0.100	0.07166		mg/Kg		72	70 - 130		
m,p-Xylenes			0.200	0.1469		mg/Kg		73	70 - 130		
o-Xylene			0.100	0.07597		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-110422/2-A
Matrix: Solid
Analysis Batch: 110408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110422

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07841		mg/Kg		78	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-110422/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 110408 **Prep Batch: 110422**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07402		mg/Kg		74	70 - 130	0	35
Ethylbenzene			0.100	0.07168		mg/Kg		72	70 - 130	0	35
m,p-Xylenes			0.200	0.1485		mg/Kg		74	70 - 130	1	35
o-Xylene			0.100	0.07617		mg/Kg		76	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-110423/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 110407 **Prep Batch: 110423**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 11:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/19/25 10:09	05/19/25 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 10:09	05/19/25 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 10:09	05/19/25 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/19/25 10:09*	*05/19/25 11:31*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*05/19/25 10:09*	*05/19/25 11:31*	*1*

Lab Sample ID: LCS 880-110423/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 110407 **Prep Batch: 110423**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1019		mg/Kg		102	70 - 130
Toluene			0.100	0.09929		mg/Kg		99	70 - 130
Ethylbenzene			0.100	0.09557		mg/Kg		96	70 - 130
m,p-Xylenes			0.200	0.2029		mg/Kg		101	70 - 130
o-Xylene			0.100	0.1005		mg/Kg		100	70 - 130

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

Lab Sample ID: LCSD 880-110423/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 110407 **Prep Batch: 110423**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09867		mg/Kg		99	70 - 130	3	35
Toluene			0.100	0.09780		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.09320		mg/Kg		93	70 - 130	3	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-110423/2-A
Matrix: Solid
Analysis Batch: 110407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110423

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.2001		mg/Kg		100	70 - 130	1	35
o-Xylene			0.100	0.1002		mg/Kg		100	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-110350/1-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110350

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		05/16/25 14:10	05/22/25 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/25 14:10	05/22/25 14:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/25 14:10	05/22/25 14:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/16/25 14:10*	*05/22/25 14:57*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*05/16/25 14:10*	*05/22/25 14:57*	*1*

Lab Sample ID: LCS 880-110350/2-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110350

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1104		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-110350/3-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110350

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1123		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1132		mg/Kg		113	70 - 130	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

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

Lab Sample ID: LCSD 880-110350/3-A
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110350

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: 880-58277-1 MS
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: C-24 1'
Prep Type: Total/NA
Prep Batch: 110350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	920.0		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	995	980.7		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	96		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Lab Sample ID: 880-58277-1 MSD
Matrix: Solid
Analysis Batch: 110717

Client Sample ID: C-24 1'
Prep Type: Total/NA
Prep Batch: 110350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	915.3		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	983.3		mg/Kg		99	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110427/1-A
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/19/25 19:25	1

Lab Sample ID: LCS 880-110427/2-A
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	266.2		mg/Kg		106	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-110427/3-A
Matrix: Solid
Analysis Batch: 110444

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	269.4		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-58277-8 MS
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: C-13 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	238		251	480.5		mg/Kg		97	90 - 110		

Lab Sample ID: 880-58277-8 MSD
Matrix: Solid
Analysis Batch: 110444

Client Sample ID: C-13 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	238		251	486.9		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

GC VOA

Analysis Batch: 110407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-7	C-14 1'	Total/NA	Solid	8021B	110423
880-58277-8	C-13 1'	Total/NA	Solid	8021B	110423
880-58277-9	C-37 0-2.5'	Total/NA	Solid	8021B	110423
MB 880-110423/5-A	Method Blank	Total/NA	Solid	8021B	110423
LCS 880-110423/1-A	Lab Control Sample	Total/NA	Solid	8021B	110423
LCSD 880-110423/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110423

Analysis Batch: 110408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	8021B	110422
880-58277-2	C-23 1'	Total/NA	Solid	8021B	110422
880-58277-3	C-22 1'	Total/NA	Solid	8021B	110422
880-58277-4	C-19 1'	Total/NA	Solid	8021B	110422
880-58277-5	C-18 1'	Total/NA	Solid	8021B	110422
880-58277-6	C-15 1'	Total/NA	Solid	8021B	110422
880-56959-A-22-D MB	Method Blank	Total/NA	Solid	8021B	110422
MB 880-110422/5-A	Method Blank	Total/NA	Solid	8021B	110422
LCS 880-110422/1-A	Lab Control Sample	Total/NA	Solid	8021B	110422
LCSD 880-110422/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110422

Prep Batch: 110422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	5035	
880-58277-2	C-23 1'	Total/NA	Solid	5035	
880-58277-3	C-22 1'	Total/NA	Solid	5035	
880-58277-4	C-19 1'	Total/NA	Solid	5035	
880-58277-5	C-18 1'	Total/NA	Solid	5035	
880-58277-6	C-15 1'	Total/NA	Solid	5035	
880-56959-A-22-D MB	Method Blank	Total/NA	Solid	5035	
MB 880-110422/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110422/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110422/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 110423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-7	C-14 1'	Total/NA	Solid	5035	
880-58277-8	C-13 1'	Total/NA	Solid	5035	
880-58277-9	C-37 0-2.5'	Total/NA	Solid	5035	
MB 880-110423/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110423/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110423/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 110467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	Total BTEX	
880-58277-2	C-23 1'	Total/NA	Solid	Total BTEX	
880-58277-3	C-22 1'	Total/NA	Solid	Total BTEX	
880-58277-4	C-19 1'	Total/NA	Solid	Total BTEX	
880-58277-5	C-18 1'	Total/NA	Solid	Total BTEX	
880-58277-6	C-15 1'	Total/NA	Solid	Total BTEX	
880-58277-7	C-14 1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

GC VOA (Continued)

Analysis Batch: 110467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-8	C-13 1'	Total/NA	Solid	Total BTEX	
880-58277-9	C-37 0-2.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	8015NM Prep	
880-58277-2	C-23 1'	Total/NA	Solid	8015NM Prep	
880-58277-3	C-22 1'	Total/NA	Solid	8015NM Prep	
880-58277-4	C-19 1'	Total/NA	Solid	8015NM Prep	
880-58277-5	C-18 1'	Total/NA	Solid	8015NM Prep	
880-58277-6	C-15 1'	Total/NA	Solid	8015NM Prep	
880-58277-7	C-14 1'	Total/NA	Solid	8015NM Prep	
880-58277-8	C-13 1'	Total/NA	Solid	8015NM Prep	
880-58277-9	C-37 0-2.5'	Total/NA	Solid	8015NM Prep	
MB 880-110350/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110350/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58277-1 MS	C-24 1'	Total/NA	Solid	8015NM Prep	
880-58277-1 MSD	C-24 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	8015B NM	110350
880-58277-2	C-23 1'	Total/NA	Solid	8015B NM	110350
880-58277-3	C-22 1'	Total/NA	Solid	8015B NM	110350
880-58277-4	C-19 1'	Total/NA	Solid	8015B NM	110350
880-58277-5	C-18 1'	Total/NA	Solid	8015B NM	110350
880-58277-6	C-15 1'	Total/NA	Solid	8015B NM	110350
880-58277-7	C-14 1'	Total/NA	Solid	8015B NM	110350
880-58277-8	C-13 1'	Total/NA	Solid	8015B NM	110350
880-58277-9	C-37 0-2.5'	Total/NA	Solid	8015B NM	110350
MB 880-110350/1-A	Method Blank	Total/NA	Solid	8015B NM	110350
LCS 880-110350/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110350
LCSD 880-110350/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110350
880-58277-1 MS	C-24 1'	Total/NA	Solid	8015B NM	110350
880-58277-1 MSD	C-24 1'	Total/NA	Solid	8015B NM	110350

Analysis Batch: 110811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Total/NA	Solid	8015 NM	
880-58277-2	C-23 1'	Total/NA	Solid	8015 NM	
880-58277-3	C-22 1'	Total/NA	Solid	8015 NM	
880-58277-4	C-19 1'	Total/NA	Solid	8015 NM	
880-58277-5	C-18 1'	Total/NA	Solid	8015 NM	
880-58277-6	C-15 1'	Total/NA	Solid	8015 NM	
880-58277-7	C-14 1'	Total/NA	Solid	8015 NM	
880-58277-8	C-13 1'	Total/NA	Solid	8015 NM	
880-58277-9	C-37 0-2.5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

HPLC/IC

Leach Batch: 110427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Soluble	Solid	DI Leach	
880-58277-2	C-23 1'	Soluble	Solid	DI Leach	
880-58277-3	C-22 1'	Soluble	Solid	DI Leach	
880-58277-4	C-19 1'	Soluble	Solid	DI Leach	
880-58277-5	C-18 1'	Soluble	Solid	DI Leach	
880-58277-6	C-15 1'	Soluble	Solid	DI Leach	
880-58277-7	C-14 1'	Soluble	Solid	DI Leach	
880-58277-8	C-13 1'	Soluble	Solid	DI Leach	
880-58277-9	C-37 0-2.5'	Soluble	Solid	DI Leach	
MB 880-110427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110427/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58277-8 MS	C-13 1'	Soluble	Solid	DI Leach	
880-58277-8 MSD	C-13 1'	Soluble	Solid	DI Leach	

Analysis Batch: 110444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58277-1	C-24 1'	Soluble	Solid	300.0	110427
880-58277-2	C-23 1'	Soluble	Solid	300.0	110427
880-58277-3	C-22 1'	Soluble	Solid	300.0	110427
880-58277-4	C-19 1'	Soluble	Solid	300.0	110427
880-58277-5	C-18 1'	Soluble	Solid	300.0	110427
880-58277-6	C-15 1'	Soluble	Solid	300.0	110427
880-58277-7	C-14 1'	Soluble	Solid	300.0	110427
880-58277-8	C-13 1'	Soluble	Solid	300.0	110427
880-58277-9	C-37 0-2.5'	Soluble	Solid	300.0	110427
MB 880-110427/1-A	Method Blank	Soluble	Solid	300.0	110427
LCS 880-110427/2-A	Lab Control Sample	Soluble	Solid	300.0	110427
LCSD 880-110427/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110427
880-58277-8 MS	C-13 1'	Soluble	Solid	300.0	110427
880-58277-8 MSD	C-13 1'	Soluble	Solid	300.0	110427

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-24 1'

Date Collected: 05/16/25 08:05
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58277-1

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	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 15:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 15:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		5			110444	05/19/25 20:20	CH	EET MID

Client Sample ID: C-23 1'

Date Collected: 05/16/25 08:11
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58277-2

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			4.99 g	5 mL	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 18:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 16:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 16:35	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 20:26	CH	EET MID

Client Sample ID: C-22 1'

Date Collected: 05/16/25 08:20
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58277-3

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	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 16:51	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 20:47	CH	EET MID

Client Sample ID: C-19 1'

Date Collected: 05/16/25 08:38
Date Received: 05/16/25 17:07

Lab Sample ID: 880-58277-4

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	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 19:27	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Client Sample ID: C-19 1'

Lab Sample ID: 880-58277-4
Matrix: Solid
Date Collected: 05/16/25 08:38
Date Received: 05/16/25 17:07

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			110811	05/22/25 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 17:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 20:54	CH	EET MID

Client Sample ID: C-18 1'

Lab Sample ID: 880-58277-5
Matrix: Solid
Date Collected: 05/16/25 08:42
Date Received: 05/16/25 17:07

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	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 19:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 17:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 17:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 21:00	CH	EET MID

Client Sample ID: C-15 1'

Lab Sample ID: 880-58277-6
Matrix: Solid
Date Collected: 05/16/25 08:58
Date Received: 05/16/25 17:07

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	110422	05/19/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110408	05/19/25 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 20:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 17:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 17:40	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 21:07	CH	EET MID

Client Sample ID: C-14 1'

Lab Sample ID: 880-58277-7
Matrix: Solid
Date Collected: 05/16/25 09:10
Date Received: 05/16/25 17:07

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	110423	05/19/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110407	05/19/25 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 14:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 17:56	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

Client Sample ID: C-14 1' — Lab Sample ID: 880-58277-7

Date Collected: 05/16/25 09:10 **Matrix: Solid**
Date Received: 05/16/25 17:07

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	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 21:14	CH	EET MID

Client Sample ID: C-13 1' — Lab Sample ID: 880-58277-8

Date Collected: 05/16/25 09:12 **Matrix: Solid**
Date Received: 05/16/25 17:07

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	110423	05/19/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110407	05/19/25 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 14:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 18:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 18:13	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 21:21	CH	EET MID

Client Sample ID: C-37 0-2.5' — Lab Sample ID: 880-58277-9

Date Collected: 05/14/25 11:28 **Matrix: Solid**
Date Received: 05/16/25 17:07

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	110423	05/19/25 10:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110407	05/19/25 16:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110467	05/19/25 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110811	05/22/25 18:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110350	05/16/25 14:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110717	05/22/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110427	05/19/25 10:27	SI	EET MID
Soluble	Analysis	300.0		1			110444	05/19/25 21:41	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: 880-58277-1
Project/Site: Gravitas Spill 3 SDG: 24-0117-02

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	06-30-25

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: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

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: Gravitas Spill 3

Job ID: 880-58277-1
SDG: 24-0117-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58277-1	C-24 1'	Solid	05/16/25 08:05	05/16/25 17:07
880-58277-2	C-23 1'	Solid	05/16/25 08:11	05/16/25 17:07
880-58277-3	C-22 1'	Solid	05/16/25 08:20	05/16/25 17:07
880-58277-4	C-19 1'	Solid	05/16/25 08:38	05/16/25 17:07
880-58277-5	C-18 1'	Solid	05/16/25 08:42	05/16/25 17:07
880-58277-6	C-15 1'	Solid	05/16/25 08:58	05/16/25 17:07
880-58277-7	C-14 1'	Solid	05/16/25 09:10	05/16/25 17:07
880-58277-8	C-13 1'	Solid	05/16/25 09:12	05/16/25 17:07
880-58277-9	C-37 0-2.5'	Solid	05/14/25 11:28	05/16/25 17:07

58277

No. 3268

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 5/16/25 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: GRAVITAS SPILL 3

LAI PROJECT #: 24-0117-02 COLLECTOR: IR

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 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-24 1'		5/16/25	8:05	S	1				X		X		X	X	X													X	
C-23 1'		"	8:11	"	"				"		"		"	"	"													"	
C-22 1'			8:20																										
C-19 1'			8:38																										
C-18 1'			8:42																										
C-15 1'			8:58																										
C-14 1'			9:10																										
C-13 1'		"	9:12	"	"				"		"		"	"	"													"	
C-37 0-25'		5/16/25	11:28AM	S	1				X		X		X	X	X													X	

880-58277 Chain of Custody

TOTAL 9 ← (NINE)

RELINQUISHED BY:(Signature)	DATE/TIME 5.16.25 1707	RECEIVED BY: (Signature) JKramer
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: EUROFINS

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

LABORATORY USE ONLY:
RECEIVING TEMP: 1.3/1.2 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-58277-1
SDG Number: 24-0117-02

Login Number: 58277
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

Area impacted by release, viewing west.

Area impacted by release, viewing west.

Area impacted by release, viewing northwest.

Area impacted by release, viewing southwest.

Area impacted by release, viewing west.

Area impacted by release, viewing further west.

Area impacted by release, viewing southwest.

Area impacted by release, viewing east.

Area impacted by release, viewing east.

Area impacted by release, viewing northeast.

Area impacted by release, viewing east.

Area impacted by release, viewing southwest.

Area impacted by release, viewing west.

Area impacted by release, viewing southwest.

Area impacted by release, viewing west.

Area impacted by release, viewing northwest.

Area impacted by release, viewing northwest.

Area impacted by release, viewing north.

Area impacted by release, viewing west.

Excavated area along line, viewing west.

Excavated area on south side of pad, viewing southwest.

Excavated area, viewing southeast.

Excavated area, viewing south.

Excavated area, viewing southwest.

Excavated area, viewing southwest.

Excavated area, viewing southeast.

Excavated area, viewing east.

Excavated area, viewing northeast.

Excavated area, viewing east.

Excavated area, viewing northwest.

Excavated area, viewing west.

Excavated area, viewing east.

Excavated area, viewing north.

Excavated area, viewing northeast.

Excavated area, viewing northwest.

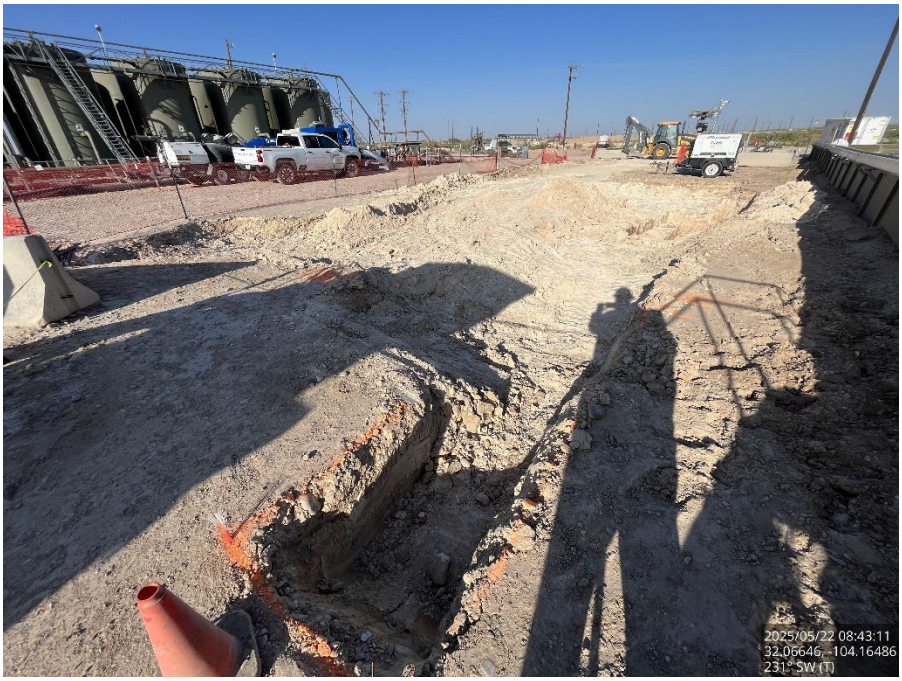
Excavated area on the northside of the pad, viewing north.

Excavated area, viewing northeast.

Middle of the excavated area on the north side, viewing northwest.

East most side of the excavation on the north side of the pad, viewing north.

Excavated area, viewing west.



Excavated area, viewing southwest.

Excavated area, viewing south.

Excavated area, southwest.

Eight foot excavated area (benched), viewing southwest.

Excavated area, viewing south.

Excavated area alongside berm north of pad, viewing southeast.

Excavated area with tanks in the background, viewing south.

Excavated area, viewing east.

Excavated area, south.

Excavated area, viewing southwest.

Excavated area, viewing south.

Excavated area, viewing south.

Spotted area to view lines below, viewing south.

Excavated area, viewing southwest.

Excavated area, viewing southwest.

Excavated area, viewing southeast.

Excavated area, viewing southeast.

In the middle of the excavation, viewing north.

Excavated area, viewing east.

Excavated area, viewing southeast.

Excavated area entrance ramp, viewing south.

Backfilled area, viewing east.

Backfilled excavation, viewing southwest.

Backfilled excavation, viewing northwest.

Backfilled excavation, viewing northwest.

Backfilled excavation, viewing southwest.

Backfilled excavation, viewing south.

Backfilled excavation, viewing southeast.

Backfilled excavation, viewing west.

Backfilled excavation, viewing east.

Backfilled excavation, viewing east.

Backfilled excavation, viewing east.

Backfilled excavation, viewing northwest.

Backfilled excavation, viewing west.

Backfilled excavation, viewing southwest.

Backfilled excavation, viewing west.

Backfilled excavation, viewing southeast.

Backfilled excavation, viewing south.

Backfilled excavation, viewing west.

Backfilled excavation, viewing southwest.

Backfilled excavation, viewing south.

Backfilled excavation, viewing southwest.

Backfilled excavation, viewing northeast.

Backfilled excavation, viewing northeast.

Backfilled excavation, viewing north.

Backfilled excavation, viewing northwest.

Backfilled excavation, viewing east.

Backfilled excavation, viewing east.

Backfilled excavation, viewing east.

Backfilled excavation, viewing southeast.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2429640444**
Incident Name	**NAPP2429640444 HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD) @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2131342213] Hayhurst NM Section 2 SWD Facility**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HAYHURST NM SECTION 2 SWD FACILITY (GRAVITAS SWD)
Date Release Discovered	10/09/2024
Surface Owner	State

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: Equipment Failure | Pump | Produced Water | Released: 8 BBL | Recovered: 0 BBL | Lost: 8 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.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	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: 01/15/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	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 26 and 50 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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	High
A 100-year floodplain	Between 1 and 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)	26800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3060
GRO+DRO (EPA SW-846 Method 8015M)	3060
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	03/01/2025
On what date will (or did) the final sampling or liner inspection occur	04/01/2025
On what date will (or was) the remediation complete(d)	04/15/2025
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	6495
What is the estimated volume (in cubic yards) that will be remediated	389
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	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	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
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	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
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: 01/15/2025
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	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	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**460795**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/14/2025**
What was the (estimated) number of samples that were to be gathered	**50**
What was the sampling surface area in square feet	**4757**

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	5300
What was the total volume (cubic yards) remediated	310
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	5300
What was the total volume (in cubic yards) reclaimed	310
Summarize any additional remediation activities not included by answers (above)	Between April 16 and May 21, 2025, Warrior Technologies (Warrior) and Apeck Construction (Apeck), under the guidance of LAI personnel removed approximately 310 cubic yards of impacted soil from an area of about 5,300 square feet using hydro-excavation mechanical excavation methods. Impacted material was disposed of at the R360 Red Bluff Facility in Reeves County, Texas.
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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 08/08/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 493909
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/29/2025