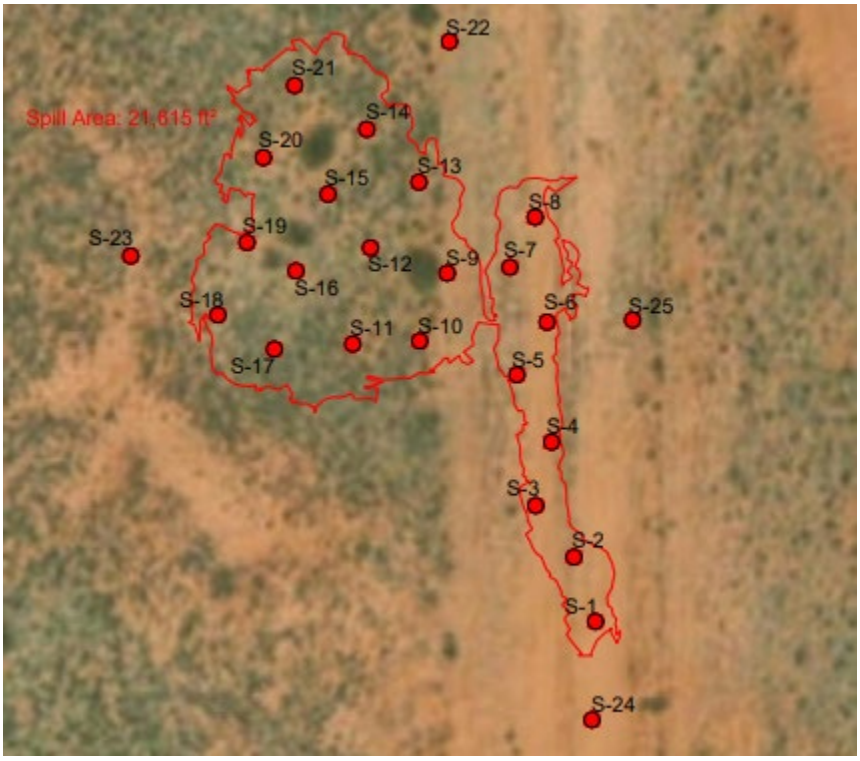
21,615 sqft=0.49 acres * 325,851 ac/ft * 0.87 ft deep * 0.1 inch/inch available water capacity=13,890 gal /42 BBL = **330 BBL**



Plant-available water holding capacities of various textured soil.

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

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

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2233947666
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2233947666
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Halie Butler Title: Sr. Corporate Waste and Remediation Manager

Signature: HButler Date: 6/23/2023

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2233947666
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Halie Butler Title: Sr. Corporate Waste and Remediation Manager

Signature: HButler Date: 6/23/2023

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

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	nAPP2233947666
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Halie Butler Title: Sr. Corporate Waste and Remediation Manager

Signature: HButler Date: 6/23/2023

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

nAPP2233947666
DELINEATION AND REMEDIATION REPORT
Lost Tanks
Produced Water Release
Chaves County, New Mexico

Latitude: 32.39051
Longitude: -103.72331

LAI Project No. 22-0104-10

June 23, 2023

Prepared for:
Select Energy Services
P.O. Box 1715
Gainesville, Texas 76242

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

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

Daniel St. Germain
Staff Geologist

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Contents

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation and remediation report on behalf of Select Energy Services, LLC. (Select) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 for a produced water spill at Lost Tanks (Site) located in Unit I (NE/4, SE/4), Section 13, Township 22 South, Range 31 East in Lea County, New Mexico. The geodetic position is North 32.39051° and West -103.72331°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release occurred on September 9, 2022, as a result of vandalism of a water transfer line. About 402 barrels (bbls) of produced water was released over an area of about 21,615 square feet (0.50 acres). Approximately 330 bbls of produced water was recovered. The surface owner is the United States Government and managed by the Bureau of Land Management (BLM). Notice of the release was given to the NMOCD On September 10, 2022. Appendix A presents the notification of release.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,609 feet above mean sea level (msl).
- Surface topography slopes gently towards the southwest.
- No surface water features are located within 1,000 feet of the site.
- USGS karst occurrence potential data designates the area as low risk.
- Soils are designated as Kermit-Berino fine sands, where the Kermit setting consists of 0 to 60 inches of fine sand, and Berino setting consists of 0 to 17 inches of fine sand, underlain by about 17 to 50 inches of fine sandy loam, and 50 to 58 inches of sandy loam.
- Surface geology is Holocene to middle Pleistocene eolian and piedmont deposits.
- Groundwater is greater than 112 feet below ground surface (bgs), based on a dry groundwater bore (GWB-1) drilled to about 112 feet bgs on January 23, 2023, and gauged 72 hours after completion.

Appendix B presents the karst potential map. Appendix C presents the boring log for GWB-1.

1.3 Remediation Levels

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

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

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

2.0 DELINEATION

On November 4, 2022, LAI personnel used stainless-steel hand augers to collect samples from 25 locations, including 21 locations (S-1 through S-21) inside of the spill area and four sample locations (S-22 through S-25) in each cardinal direction of the spill area. Samples were collected from 0-0.5 and 0.5-1-foot bgs. The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco Laboratories (Xenco), in Midland, Texas, and were analyzed 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 Method 8015M, and chloride by EPA Method 300.

Benzene, BTEX, and TPH were reported below the NMOCD closure criteria of (19.15.29 NMAC Table 1) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectively. Chloride was reported above the NMOCD delineation limit of 600 mg/Kg in the following samples:

Sample ID	Depth (ft)	Cl^- (mg/Kg)
S-3	0.5 - 1	2,620
S-6	0.5 - 1	1,150
S-7	0.5 - 1	964
S-9	0.5 - 1	836
S-17	0.5 - 1	1,030
S-18	0.5 - 1	6,080
S-21	0.5 - 1	1,380

On December 7, 2022, LAI personnel used a Geoprobe 7822® direct push rig to further delineate chloride at sample locations S-3, S-6, S-9, S-17, S-18, and S-21. Samples were collected at one (1), three (3), five (5), ten (10), and thirteen (13) feet bgs, depending on chloride field analysis and subsurface conditions. The samples were delivered under chain-of-custody and preservation to Permian Basin Environmental Lab (PBEL) in Midland, Texas. PBEL analyzed the samples for BTEX, TPH, and chloride by the methods presented above. The laboratory reported BTEX, TPH and chloride below NMOCD delineation criteria in Table 1 of 19.15.29 NMAC, except sample S-7, which was not fully delineated at this time. However, the area immediately surrounding S-7 was excavated to about 4.1 bgs and the confirmation sample C-37 was collected at the same location on April 12, 2023. Sample C-37 was analyzed by PBEL, and reported benzene, BTEX, TPH, and chloride below the NMOCDE closure criteria.

The laboratory results demonstrate that the release was fully delineated according to Table 1 of 19.15.29 NMAC for groundwater greater than 100 feet bgs. Table 1 presents a summary of delineation analytical results. Figure 3 presents an aerial map with delineation sample locations. Appendix D presents the laboratory reports.

3.0 REMEDIATION

Unlimited Construction (Unlimited) excavated approximately 1,120 cubic yards of impacted soil to between 1 and 4.1 feet bgs from the release area. Impacted soil was disposed of at the Lea Land Landfill LLC, an NMOCD permitted disposal facility located approximately 29 miles northwest of Carlsbad, New Mexico. On April 12, 2023, LAI personnel collected 61 composite confirmation soil samples (C-1 through C-61) for about every 200 square feet from the bottom and sidewalls of the excavation. PBEL analyzed the samples for BTEX, TPH, and chloride, and reported that all samples were below NMOCD closure criteria in Table 1 of 19.15.29 NMAC. Table 2 presents the laboratory analytical data summary. Figure 4 presents an aerial map with composite confirmation sample locations. Appendix D presents the laboratory reports.

On April 28, 2023, LAI personnel collected four (4) composite samples (BF-1 through BF-4) of backfill material from a borrow pit located in Unit I, Section 13, Township 22 South, Range 31 East, in Chaves County, New Mexico. PBEL analyzed the samples for BTEX, TPH and chloride. Benzene, BTEX and TPH were below the analytical method RL. Chloride ranged from 2.00 mg/Kg (BF-4) to 6.12 mg/Kg (BF-3). Table 2 presents the laboratory analytical data summary. Appendix D presents the laboratory reports.

Unlimited backfilled the excavation to approximately 2-feet bgs with caliche and to surface with topsoil from the borrow pit. Unlimited seeded the backfilled excavation with BLM Mix #2. Table 2 presents the backfill material analytical data summary. Appendix E presents photographic documentation.

4.0 CLOSURE REQUEST

Select requests closure for nAPP2233947666.

Tables

Table 1
Soil Sample Analytical Data Summary
Lost Tanks
Lea County, New Mexico
32° 23' 25.87" N, 103° 43' 23.92" W

Sample ID	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				***10***	***50***				***100/2,500***	***600/20,000***
S-1	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	60.7
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	98.6
S-2	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	377
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	418
S-3	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	78.2	<50.0	78.2	**1,470**
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	85.8	<49.9	85.8	**2,620**
	1	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	168	<26.0	**168**	168
	3	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**1,090**
	5	12/7/2022 [2]	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	5,790
	10	12/7/2022 [2]	In-Situ	<0.00106	<0.00233	<29.1	<29.1	<29.1	<29.1	12,300
	13	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	3,380
S-4	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	93.2
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	63.8
S-5	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	180
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	464
S-6	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	**1,120**
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,150**
	1	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	278
	3	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**2,340**
	5	12/7/2022 [2]	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	6,250

Table 1
Soil Sample Analytical Data Summary
Lost Tanks
Lea County, New Mexico
32° 23' 25.87" N, 103° 43' 23.92" W

Sample ID	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				***10***	***50***				***100/2,500***	***600/20,000***
	10	12/7/2022 [2]	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	5,040
	13	12/7/2022 [2]	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	1,940
S-7	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	338
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**964**
S-8	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	59.7
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	47.2
S-9	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	188
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**836**
	1	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	419
	3	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	**4,770**
	5	12/7/2022 [2]	In-Situ	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	6,960
	10	12/7/2022 [2]	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	8,310
	11	12/7/2022 [2]	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	8,010
S-10	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	103
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	173
S-11	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00201	0.00430	<50.0	<50.0	<50.0	<50.0	104
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	420
S-12	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	45.0

Table 1
Soil Sample Analytical Data Summary
Lost Tanks
Lea County, New Mexico
32° 23' 25.87" N, 103° 43' 23.92" W

Sample ID	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				***10***	***50***				***100/2,500***	***600/20,000***
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	89.4
S-13	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00202	<0.00403	<50.0	60.5	<50.0	60.5	130
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	109
S-14	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**630**
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	328
S-15	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	31.7
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	42.7
S-16	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	45.9
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	16.7
S-17	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00401	<50.0	129	<50.0	**129**	**611**
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,030**
	1	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	19.9
	3	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**2,100**
	5	12/7/2022 [2]	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	2,470
	10	12/7/2022 [2]	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	10,700
	13	12/7/2022 [2]	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	9,370
S-18	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	387
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**6,080**

Table 1
Soil Sample Analytical Data Summary
Lost Tanks
Lea County, New Mexico
32° 23' 25.87" N, 103° 43' 23.92" W

Sample ID	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				***10***	***50***				***100/2,500***	***600/20,000***
	1	12/7/2022 [2]	In-Situ	<0.00103	<0.00206	<25.8	114	42.1	**156**	64.0
	3	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	**990**
	5	12/7/2022 [2]	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	3,130
	10	12/7/2022 [2]	In-Situ	<0.00118	<0.00235	<29.4	<29.4	<29.4	<29.4	11,500
	13	12/7/2022 [2]	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	4,150
S-19	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<49.9	77.7	<49.9	77.7	101
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	180
S-20	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	20.3
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	16.3
S-21	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	134
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,380**
	1	12/7/2022 [2]	In-Situ	<0.00105	<0.00211	<26.3	52.2	<26.3	52.2	105
	3	12/7/2022 [2]	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	332
	5	12/7/2022 [2]	In-Situ	<0.00123	<0.00247	<30.9	<30.9	<30.9	<30.9	14,200
	10	12/7/2022 [2]	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	11,000
S-22	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	23.8
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	19.9
S-23	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	19.7
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	13.7

Table 1
Soil Sample Analytical Data Summary
Lost Tanks
Lea County, New Mexico
32° 23' 25.87" N, 103° 43' 23.92" W

Sample ID	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				***10***	***50***				***100/2,500***	***600/20,000***
S-24	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	22.7
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	14.1
S-25	0 - 0.5	11/4/2022 [1]	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	18.0
	0.5 - 1	11/4/2022 [1]	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	26.1

Notes:

[1]: analysis performed by Eurofins - Xenco Laboratories (Xenco) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

[2]: analysis performed by Permian Basin Enviromental Lab (PBEL) in Midland, Texas by EPA SW-846 8021B (BTEX), 8015M (TPH), and 300E (Chloride)

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

<: denotes concentration less than analytical method reporting limit

Depth in feet below ground surface (bgs)

Bold and Highlighted exceeds NMOCD delineation limit

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Lost Tanks
Lea County, New Mexico
32°23'25.87"N, 103°43'23.92"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/20,000*
C-1	Bottom	4.1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	324
C-2	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	412
C-3	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	1,380
C-4	Bottom	4.1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	1,850
C-5	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	1,080
C-6	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	2,250
C-7	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,480
C-8	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	299
C-9	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	630
C-10	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,840
C-11	Bottom	4.1	4/12/2023	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	673
C-12	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,100
C-13	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	223
C-14	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	903
C-15	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,060
C-16	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	517
C-17	Bottom	4.1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	359
C-18	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	361
C-19	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	61.3
C-20	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	93.6
C-21	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	455
C-22	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	220
C-23	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	535
C-24	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	926
C-25	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	38.4
C-26	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00202	<25.3	<25.3	<25.3	<25.3	182
C-27	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,970

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Lost Tanks
Lea County, New Mexico
32°23'25.87"N, 103°43'23.92"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					*10*	*50*				*100/2,500*	*600/20,000*
C-28	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	1,430
C-29	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	4,010
C-30	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,460
C-31	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	2,830
C-32	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	3,390
C-33	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	2,150
C-34	Bottom	4.1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	678
C-35	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	1,170
C-36	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	685
C-37	Bottom	4.1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	873
C-38	Bottom	4.1	4/12/2023	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	4,970
C-39	Bottom	4.1	4/12/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	3,530
C-40	Bottom	4.1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	1,610
C-41	Bottom	4.1	4/12/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	3,240
C-42	Bottom	4.1	4/12/2023	In-Situ	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	9,580
C-43	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	2,950
C-44	Bottom	4.1	4/12/2023	In-Situ	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	3,740
C-45	Bottom	4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	722
C-46	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	148
C-47	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	232
C-48	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	324
C-49	Sidewall	0 - 4.1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	151
C-50	Bottom	1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	303
C-51	Bottom	1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	32.0
C-52	Bottom	1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	70.9
C-53	Bottom	1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	38.8
C-54	Bottom	1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	104

Table 2
Confirmation Soil Sample Analytical Data Summary
Select Energy Services, Lost Tanks
Lea County, New Mexico
32°23'25.87"N, 103°43'23.92"W

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/20,000***
C-55	Bottom	1	4/12/2023	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	181
C-56	Bottom	1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	19.6
C-57	Bottom	1	4/12/2023	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	23.6
C-58	Bottom	1	4/12/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	57.8
C-59	Bottom	1	4/12/2023	In-Situ	<0.00102	<0.00204	<25.5	<25.5	<25.5	<25.5	13.6
C-60	Sidewall	0 - 1	4/12/2023	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	47.7
C-61	Sidewall	0 - 1	4/12/2023	In-Situ	<0.00100	<0.00200	<25.0	<25.0	<25.0	<25.0	104
Backfill Samples											
BF-1	--	--	4/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	<1.01
BF-2	--	--	4/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	<1.01
BF-3	--	--	4/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	6.12
BF-4	--	--	4/28/2023	In-Situ	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	2.00

Notes:

analysis performed by Permian Basin Environmental Laboratories (PBEL), Midland, Texas and by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

Depth in feet below ground surface (bgs)

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

Bold and Highlighted Denotes Conetrations Above NMOCD Closure Criteria

Figures

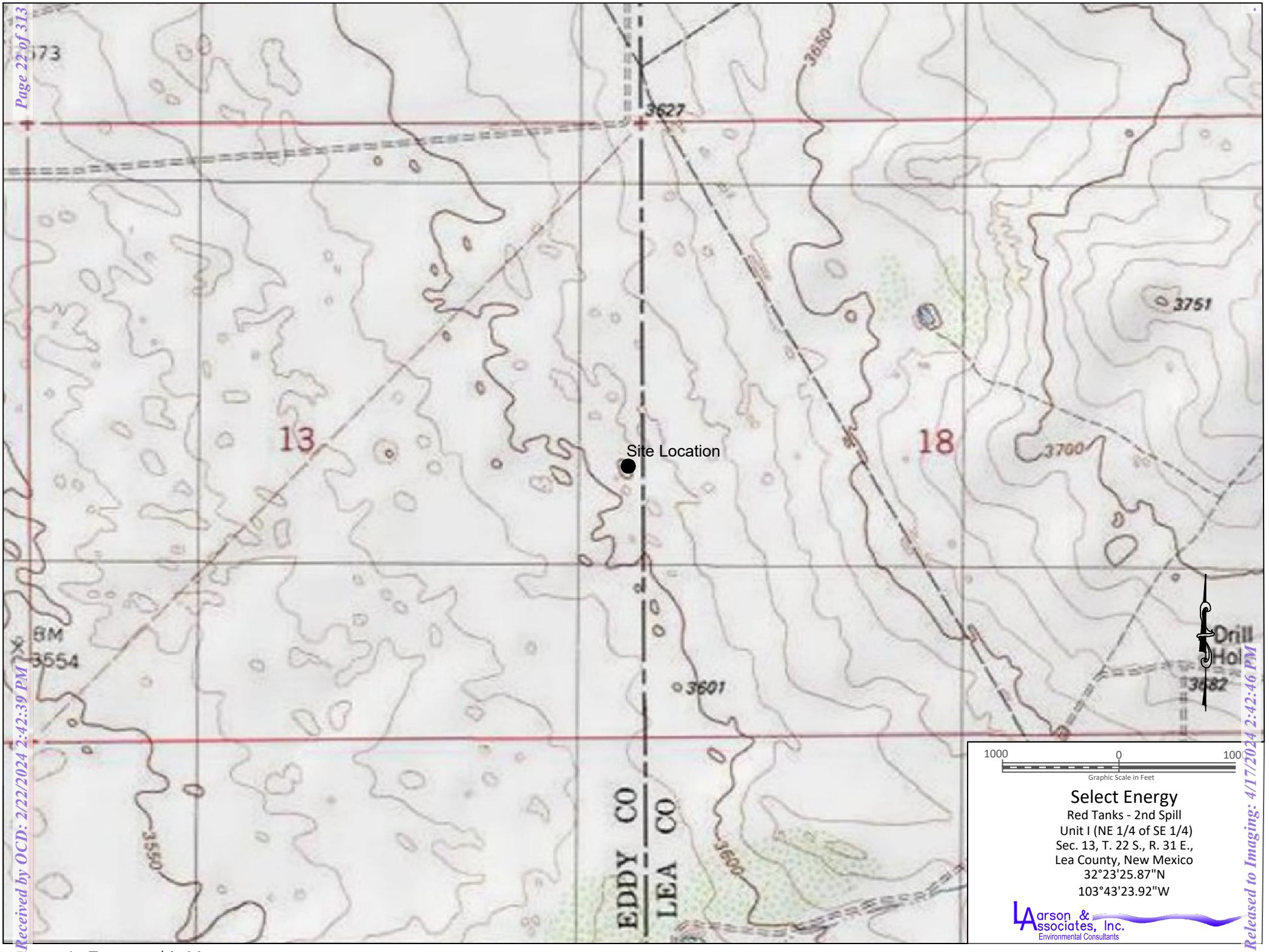

Figure 1 - Topographic Map

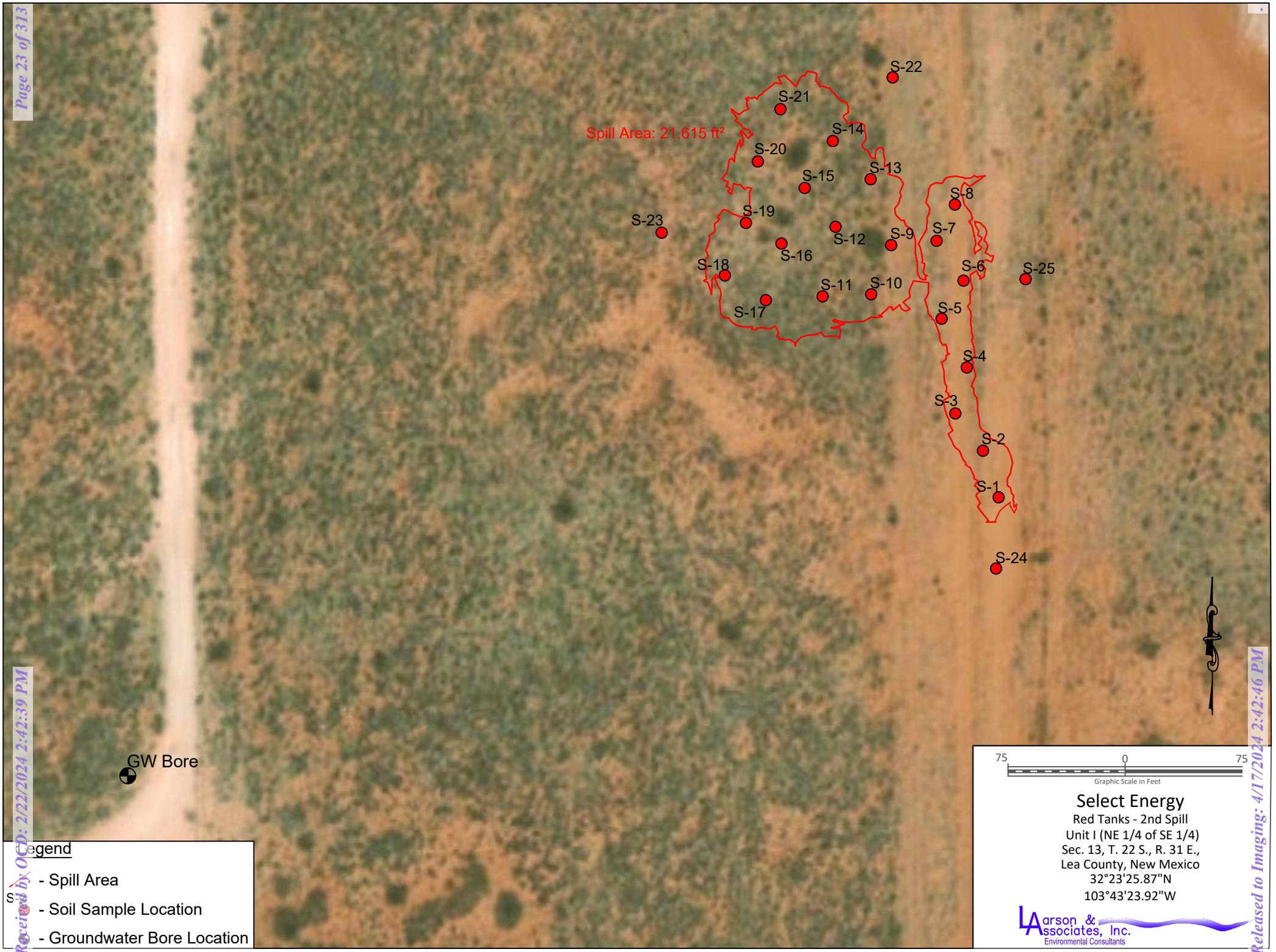

Figure 2 - Aerial Map Showing Delineation Soil Sample Locations and Groundwater Bore Location

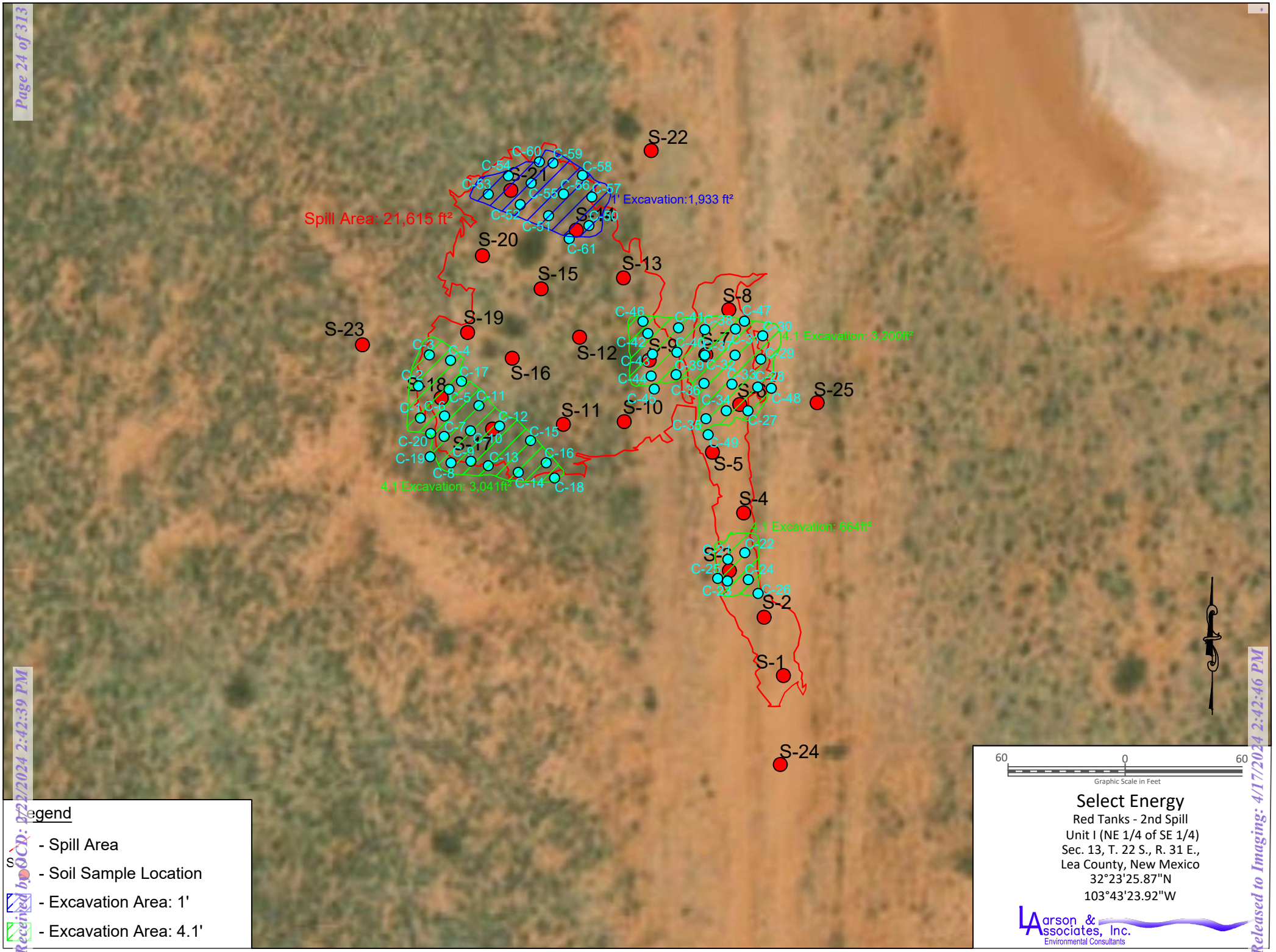

Figure 3 - Aerial Map Showing Excavation Locations and Confirmation Samples

Appendix A

Notification of Release

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 163890

QUESTIONS

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 163890
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Lost/Red Tanks Spill
Date Release Discovered	10/09/2022
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
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: Vandalism | Pipeline (Any) | Produced Water | Released: 330 BBL | Recovered: 402 BBL | Lost: -72 BBL.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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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: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 163890
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.7(A) NMAC	**Yes, major release.**
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of a volume, excluding gases, of 25 barrels or more • Reported amounts resulted in a negative lost value
If YES, was immediate notice given to the OCD, by whom	Halie Butler
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	10/10/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	email
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 19.15.29.8 B. (4) 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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	OGRID: 289068
	Action Number: 163890
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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

CONDITIONS

Action 163890

CONDITIONS

Operator:	OGRID:
SELECT ENERGY SERVICES, LLC PO Box 1715 Gainesville, TX 76240	289068
	Action Number: 163890
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
hbutler	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/5/2022

Appendix B

Karst Potential Map


Red Tanks 2nd Spill
Low

Appendix C

Boring Log

BORING RECORD

Start: 9:33
Finish: 11:47

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Sand, 7.5YR 6/6, Reddish Yellow, Fine Grained Quartz Sand, Well Rounded, Well Sorted	SW	
	10	Caliche, 5YR 8/3, Pink, Cemented Material, Well Sorted, Well Rounded	Caliche	
	15	Sand, 7.5YR 6/6, Reddish Yellow, Fine Grained Quartz Sand, Well Rounded, Well Sorted	SW	
	20	Clay, 5YR 4/4, Reddish Brown, Very Fine Grained Quartz Sand, Well Sorted, Well Rounded	CH	
	70		CH	

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

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH
1 5 10 15 20 25 30 35 40 50 60 70 80 90

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 : Select Energy/ 22-0104-10
HOLE DIAMETER : 5"
LOCATION : Red Tanks - 32°23'22.50"N, 103°43'29.44"W
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 1/23/23

BORING NUMBER : GWB-1

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 9:33 Finish: 11:47 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X ____ (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING SOIL : ____ PPM SOIL : ____ PPM
	70									
	75		CH							
	80									
	85									
	90									
	95									
	100		CH							
	105									
	110									
	115	TD: 112' Dry After 72 Hours								
	120									
	125									
	130									

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 1/23/23

BORING NUMBER : GWB-1

JOB NUMBER : Select Energy/ 22-0104-10
HOLE DIAMETER : 5"
LOCATION : Red Tanks - 32°23'22.50"N, 103°43'29.44"W
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Appendix D

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/17/2022 5:02:02 PM

JOB DESCRIPTION

Select Energy-Red Tanks 2nd Spills
SDG NUMBER 22-0104-10

JOB NUMBER

880-21422-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

my EOL

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Laboratory Job ID: 880-21422-1
SDG: 22-0104-10

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Job ID: 880-21422-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21422-1

Receipt
The samples were received on 11/10/2022 8:39 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4º C.

Receipt Exceptions
The following samples were received and analyzed from a bulk soil jar: S-1, 0-0.5' (880-21422-1), S-1, 0.5-1' (880-21422-2), S-2, 0-0.5' (880-21422-3), S-2, 0.5-1' (880-21422-4), S-3, 0-0.5' (880-21422-5), S-3, 0.5-1' (880-21422-6), S-4, 0-0.5' (880-21422-7), S-4, 0.5-1' (880-21422-8), S-5, 0-0.5' (880-21422-9), S-5, 0.5-1' (880-21422-10), S-6, 0-0.5' (880-21422-11), S-6, 0.5-1' (880-21422-12), S-7, 0-0.5' (880-21422-13), S-7, 0.5-1' (880-21422-14), S-8, 0-0.5' (880-21422-15), S-8, 0.5-1' (880-21422-16), S-9, 0-0.5' (880-21422-17), S-9, 0.5-1' (880-21422-18), S-10, 0-0.5' (880-21422-19), S-10, 0.5-1' (880-21422-20), S-11, 0-0.5' (880-21422-21), S-11, 0.5-1' (880-21422-22), S-12, 0-0.5' (880-21422-23), S-12, 0.5-1' (880-21422-24), S-13, 0-0.5' (880-21422-25), S-13, 0.5-1' (880-21422-26), S-14, 0-0.5' (880-21422-27), S-14, 0.5-1' (880-21422-28), S-15, 0-0.5' (880-21422-29), S-15, 0.5-1' (880-21422-30), S-16, 0-0.5' (880-21422-31), S-16, 0.5-1' (880-21422-32), S-17, 0-0.5' (880-21422-33), S-17, 0.5-1' (880-21422-34), S-18, 0-0.5' (880-21422-35), S-18, 0.5-1' (880-21422-36), S-19, 0-0.5' (880-21422-37), S-19, 0.5-1' (880-21422-38), S-20, 0-0.5' (880-21422-39), S-20, 0.5-1' (880-21422-40), S-21, 0-0.5' (880-21422-41), S-21, 0.5-1' (880-21422-42), S-22, 0-0.5' (880-21422-43), S-22, 0.5-1' (880-21422-44), S-23, 0-0.5' (880-21422-45), S-23, 0.5-1' (880-21422-46), S-24, 0-0.5' (880-21422-47), S-24, 0.5-1' (880-21422-48), S-25, 0-0.5' (880-21422-49) and S-25, 0.5-1' (880-21422-50).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-39610 recovered above the upper control limit for Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-39513 and analytical batch 880-39610 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-39686 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene due to instrument noise. 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.

GC Semi VOA
Method 8015B NM: The CCV was biased high for both gasoline and diesel range hydrocarbons. However, another CCV was analyzed and acceptable in the 12 hour period; therefore, the data was qualified and reported.
(CCV 880-39373/47)

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-22, 0-0.5' (880-21422-43), S-23, 0-0.5' (880-21422-45), S-25, 0.5-1' (880-21422-50) and (MB 880-39314/1-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (880-21422-A-1-B MS) and (880-21422-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-2, 0-0.5' (880-21422-3), S-2, 0.5-1' (880-21422-4), S-3, 0-0.5' (880-21422-5) and S-3, 0.5-1' (880-21422-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: S-5, 0-0.5' (880-21422-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39325 and analytical batch 880-39385 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.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Job ID: 880-21422-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39453 and 880-39453 and analytical batch 880-39653 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.

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-1, 0-0.5'
Lab Sample ID: 880-21422-1
Date Collected: 11/04/22 09:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 13:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/14/22 13:45*	*11/15/22 13:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:45*	*11/15/22 13:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 15:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	50.0		mg/Kg		11/11/22 11:49	11/14/22 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	50.0		mg/Kg		11/11/22 11:49	11/14/22 11:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/11/22 11:49*	*11/14/22 11:25*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/11/22 11:49*	*11/14/22 11:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.7**	**F1**	4.97		mg/Kg			11/16/22 21:24	1

Client Sample ID: S-1, 0.5-1'
Lab Sample ID: 880-21422-2
Date Collected: 11/04/22 09:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 13:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 13:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 13:45*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/14/22 13:45*	*11/15/22 13:45*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-1, 0.5-1'
Lab Sample ID: 880-21422-2
Date Collected: 11/04/22 09:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 15:07	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			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 12:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 12:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*11/11/22 11:49*	*11/14/22 12:30*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*11/11/22 11:49*	*11/14/22 12:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.6**		4.96		mg/Kg			11/16/22 21:45	1

Client Sample ID: S-2, 0-0.5'
Lab Sample ID: 880-21422-3
Date Collected: 11/04/22 09:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 14:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 14:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 14:05	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/14/22 13:45	11/15/22 14:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 14:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 13:45	11/15/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 14:05*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/14/22 13:45*	*11/15/22 14:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/15/22 15:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 12:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 12:52	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-2, 0-0.5' Lab Sample ID: 880-21422-3

Date Collected: 11/04/22 09:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*51*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 12:52*	*1*
o-Terphenyl (Surr)	*49*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 12:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**377**		5.00		mg/Kg			11/16/22 21:52	1

Client Sample ID: S-2, 0.5-1' Lab Sample ID: 880-21422-4

Date Collected: 11/04/22 09:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 15:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 15:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 15:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 13:45	11/15/22 15:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 15:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 13:45	11/15/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/14/22 13:45*	*11/15/22 15:27*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/14/22 13:45*	*11/15/22 15:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/22 17:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 13:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:14*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		5.03		mg/Kg			11/16/22 22:00	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-3, 0-0.5'
Lab Sample ID: 880-21422-5
Date Collected: 11/04/22 10:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 16:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*11/14/22 13:45*	*11/15/22 16:38*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*11/14/22 13:45*	*11/15/22 16:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**78.2**		50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 13:36	1
Diesel Range Organics (Over C10-C28)	**78.2**		50.0		mg/Kg		11/11/22 11:49	11/14/22 13:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:36*	*1*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		5.05		mg/Kg			11/16/22 22:07	1

Client Sample ID: S-3, 0.5-1'
Lab Sample ID: 880-21422-6
Date Collected: 11/04/22 10:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 16:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 16:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/14/22 13:45*	*11/15/22 16:59*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/14/22 13:45*	*11/15/22 16:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-3, 0.5-1'
Lab Sample ID: 880-21422-6
Date Collected: 11/04/22 10:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.8**		49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 13:58	1
Diesel Range Organics (Over C10-C28)	**85.8**		49.9		mg/Kg		11/11/22 11:49	11/14/22 13:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*62*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:58*	*1*
o-Terphenyl (Surr)	*65*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 13:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2620**		25.1		mg/Kg			11/16/22 22:28	5

Client Sample ID: S-4, 0-0.5'
Lab Sample ID: 880-21422-7
Date Collected: 11/04/22 10:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/14/22 13:45	11/15/22 17:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/14/22 13:45	11/15/22 17:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/14/22 13:45	11/15/22 17:19	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		11/14/22 13:45	11/15/22 17:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/14/22 13:45	11/15/22 17:19	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/14/22 13:45	11/15/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 17:19*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 17:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:20	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-4, 0-0.5' Lab Sample ID: 880-21422-7

Date Collected: 11/04/22 10:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*11/11/22 11:49*	*11/14/22 14:20*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*11/11/22 11:49*	*11/14/22 14:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.2**		4.98		mg/Kg			11/16/22 22:35	1

Client Sample ID: S-4, 0.5-1' Lab Sample ID: 880-21422-8

Date Collected: 11/04/22 10:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:45	11/15/22 17:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:45	11/15/22 17:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:45	11/15/22 17:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 13:45	11/15/22 17:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:45	11/15/22 17:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 13:45	11/15/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/14/22 13:45*	*11/15/22 17:40*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:45*	*11/15/22 17:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*11/11/22 11:49*	*11/14/22 14:42*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*11/11/22 11:49*	*11/14/22 14:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.8**		4.97		mg/Kg			11/16/22 22:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-5, 0-0.5'
Lab Sample ID: 880-21422-9
Date Collected: 11/04/22 11:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 18:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 18:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 18:00	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/14/22 13:45	11/15/22 18:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 18:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/14/22 13:45	11/15/22 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:00*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 15:04*	*1*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*	*11/11/22 11:49*	*11/14/22 15:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		5.01		mg/Kg			11/16/22 22:50	1

Client Sample ID: S-5, 0.5-1'
Lab Sample ID: 880-21422-10
Date Collected: 11/04/22 11:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 18:21	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 18:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-5, 0.5-1'
Lab Sample ID: 880-21422-10
Date Collected: 11/04/22 11:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*11/11/22 11:49*	*11/14/22 15:26*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*11/11/22 11:49*	*11/14/22 15:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**464**		4.98		mg/Kg			11/16/22 22:57	1

Client Sample ID: S-6, 0-0.5'
Lab Sample ID: 880-21422-11
Date Collected: 11/04/22 11:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 18:41	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/14/22 13:45	11/15/22 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 18:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 13:45	11/15/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:45*	*11/15/22 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 16:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 16:37	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-6, 0-0.5' Lab Sample ID: 880-21422-11

Date Collected: 11/04/22 11:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*11/11/22 11:49*	*11/14/22 16:37*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/11/22 11:49*	*11/14/22 16:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		5.03		mg/Kg			11/16/22 23:04	1

Client Sample ID: S-6, 0.5-1' Lab Sample ID: 880-21422-12

Date Collected: 11/04/22 11:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 19:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 19:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 19:02	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/14/22 13:45	11/15/22 19:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:45	11/15/22 19:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/14/22 13:45	11/15/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/14/22 13:45*	*11/15/22 19:02*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/14/22 13:45*	*11/15/22 19:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 16:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 16:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/11/22 11:49*	*11/14/22 16:58*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*11/11/22 11:49*	*11/14/22 16:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		5.02		mg/Kg			11/16/22 23:25	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-7, 0-0.5' Lab Sample ID: 880-21422-13

Date Collected: 11/04/22 12:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 19:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 19:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 19:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 19:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:45	11/15/22 19:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:45	11/15/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/14/22 13:45*	*11/15/22 19:22*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/14/22 13:45*	*11/15/22 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*11/11/22 11:49*	*11/14/22 17:20*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*11/11/22 11:49*	*11/14/22 17:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**338**		5.04		mg/Kg			11/16/22 23:32	1

Client Sample ID: S-7, 0.5-1' Lab Sample ID: 880-21422-14

Date Collected: 11/04/22 12:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 13:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:09*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:09*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-7, 0.5-1' Lab Sample ID: 880-21422-14

Date Collected: 11/04/22 12:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*11/11/22 11:49*	*11/14/22 17:42*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/11/22 11:49*	*11/14/22 17:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**964**		4.97		mg/Kg			11/16/22 23:54	1

Client Sample ID: S-8, 0-0.5' Lab Sample ID: 880-21422-15

Date Collected: 11/04/22 12:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 13:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 13:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 13:29	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 13:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 13:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:29*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 18:03	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-8, 0-0.5' Lab Sample ID: 880-21422-15

Date Collected: 11/04/22 12:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:03*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.7**		5.05		mg/Kg			11/17/22 00:01	1

Client Sample ID: S-8, 0.5-1' Lab Sample ID: 880-21422-16

Date Collected: 11/04/22 12:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 13:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 13:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:50*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/14/22 13:52*	*11/15/22 13:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:25*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.2**		5.04		mg/Kg			11/17/22 00:08	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-9, 0-0.5'
Lab Sample ID: 880-21422-17
Date Collected: 11/04/22 13:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:10	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:10*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:46*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*11/11/22 11:49*	*11/14/22 18:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**188**		4.99		mg/Kg			11/17/22 00:15	1

Client Sample ID: S-9, 0.5-1'
Lab Sample ID: 880-21422-18
Date Collected: 11/04/22 13:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/14/22 13:52	11/15/22 14:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 14:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 13:52	11/15/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-9, 0.5-1'
Lab Sample ID: 880-21422-18
Date Collected: 11/04/22 13:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:08*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:08*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**836**		5.00		mg/Kg			11/17/22 00:22	1

Client Sample ID: S-10, 0-0.5'
Lab Sample ID: 880-21422-19
Date Collected: 11/04/22 13:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 14:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 14:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 14:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 14:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 14:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:51*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/14/22 13:52*	*11/15/22 14:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 19:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 19:30	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-10, 0-0.5' Lab Sample ID: 880-21422-19

Date Collected: 11/04/22 13:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:49	11/14/22 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:30*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		4.97		mg/Kg			11/17/22 00:29	1

Client Sample ID: S-10, 0.5-1' Lab Sample ID: 880-21422-20

Date Collected: 11/04/22 13:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 15:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 15:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 15:11	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 15:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 15:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/14/22 13:52*	*11/15/22 15:11*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/14/22 13:52*	*11/15/22 15:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/22 13:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 19:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 19:52	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/22 11:49	11/14/22 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:52*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*11/11/22 11:49*	*11/14/22 19:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**173**		4.96		mg/Kg			11/17/22 00:36	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-11, 0-0.5'
Lab Sample ID: 880-21422-21
Date Collected: 11/04/22 14:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 15:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 15:32	1
Ethylbenzene	**0.00227**		0.00201		mg/Kg		11/14/22 13:52	11/15/22 15:32	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 13:52	11/15/22 15:32	1
o-Xylene	**0.00203**		0.00201		mg/Kg		11/14/22 13:52	11/15/22 15:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 13:52	11/15/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/14/22 13:52*	*11/15/22 15:32*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/14/22 13:52*	*11/15/22 15:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00430**		0.00402		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 21:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 21:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*11/14/22 10:19*	*11/14/22 21:39*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/14/22 10:19*	*11/14/22 21:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.05		mg/Kg			11/16/22 10:09	1

Client Sample ID: S-11, 0.5-1'
Lab Sample ID: 880-21422-22
Date Collected: 11/04/22 14:05 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 16:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 16:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 16:40	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 16:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 16:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/14/22 13:52*	*11/15/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/14/22 13:52*	*11/15/22 16:40*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-11, 0.5-1'
Date Collected: 11/04/22 14:05
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/22 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/14/22 22:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/14/22 22:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/14/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/14/22 10:19*	*11/14/22 22:44*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*11/14/22 10:19*	*11/14/22 22:44*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**		4.96		mg/Kg			11/16/22 10:26	1

Client Sample ID: S-12, 0-0.5'
Date Collected: 11/04/22 14:10
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 17:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 17:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 17:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 17:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/14/22 13:52*	*11/15/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/14/22 13:52*	*11/15/22 17:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/22 17:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/14/22 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/14/22 23:06	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-12, 0-0.5' Lab Sample ID: 880-21422-23

Date Collected: 11/04/22 14:10 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/14/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:06*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:06*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.0**		4.99		mg/Kg			11/16/22 10:31	1

Client Sample ID: S-12, 0.5-1' Lab Sample ID: 880-21422-24

Date Collected: 11/04/22 14:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 18:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 18:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/14/22 13:52*	*11/15/22 18:50*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/14/22 13:52*	*11/15/22 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 23:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 23:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:27*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.4**		5.01		mg/Kg			11/16/22 10:37	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-13, 0-0.5'
Lab Sample ID: 880-21422-25
Date Collected: 11/04/22 14:20 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:52	11/15/22 19:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:52	11/15/22 19:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:52	11/15/22 19:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/14/22 13:52	11/15/22 19:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 13:52	11/15/22 19:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/14/22 13:52	11/15/22 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:10*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**60.5**		50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 23:49	1
Diesel Range Organics (Over C10-C28)	**60.5**		50.0		mg/Kg		11/14/22 10:19	11/14/22 23:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:49*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*11/14/22 10:19*	*11/14/22 23:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.04		mg/Kg			11/16/22 10:43	1

Client Sample ID: S-13, 0.5-1'
Lab Sample ID: 880-21422-26
Date Collected: 11/04/22 14:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 19:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:31*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-13, 0.5-1' Lab Sample ID: 880-21422-26
Date Collected: 11/04/22 14:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 00:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 00:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:10*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:10*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		4.96		mg/Kg			11/16/22 11:00	1

Client Sample ID: S-14, 0-0.5' Lab Sample ID: 880-21422-27
Date Collected: 11/04/22 14:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 19:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 19:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 19:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 19:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 19:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 13:52	11/15/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:51*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/14/22 13:52*	*11/15/22 19:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:31	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-14, 0-0.5' Lab Sample ID: 880-21422-27

Date Collected: 11/04/22 14:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:31*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		4.96		mg/Kg			11/16/22 11:05	1

Client Sample ID: S-14, 0.5-1' Lab Sample ID: 880-21422-28

Date Collected: 11/04/22 14:31 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 20:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:12*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:52*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*11/14/22 10:19*	*11/15/22 00:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		5.00		mg/Kg			11/16/22 11:11	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-15, 0-0.5'
Lab Sample ID: 880-21422-29
Date Collected: 11/04/22 14:40 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 20:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 20:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:32*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*11/14/22 10:19*	*11/15/22 01:14*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*11/14/22 10:19*	*11/15/22 01:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.7**		4.97		mg/Kg			11/16/22 11:17	1

Client Sample ID: S-15, 0.5-1'
Lab Sample ID: 880-21422-30
Date Collected: 11/04/22 14:41 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 20:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 20:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 20:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 13:52	11/15/22 20:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 13:52	11/15/22 20:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 13:52	11/15/22 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:52*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/14/22 13:52*	*11/15/22 20:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-15, 0.5-1' Lab Sample ID: 880-21422-30
Date Collected: 11/04/22 14:41 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*11/14/22 10:19*	*11/15/22 01:35*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*11/14/22 10:19*	*11/15/22 01:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.7**		5.03		mg/Kg			11/16/22 11:22	1

Client Sample ID: S-16, 0-0.5' Lab Sample ID: 880-21422-31
Date Collected: 11/04/22 14:50 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/16/22 10:57	11/17/22 01:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/16/22 10:57	11/17/22 01:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/16/22 10:57	11/17/22 01:28	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/16/22 10:57	11/17/22 01:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/16/22 10:57	11/17/22 01:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/16/22 10:57	11/17/22 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*11/16/22 10:57*	*11/17/22 01:28*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/16/22 10:57*	*11/17/22 01:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/17/22 14:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 02:18	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-16, 0-0.5' Lab Sample ID: 880-21422-31

Date Collected: 11/04/22 14:50 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*11/14/22 10:19*	*11/15/22 02:18*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*11/14/22 10:19*	*11/15/22 02:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.9**		5.01		mg/Kg			11/16/22 11:28	1

Client Sample ID: S-16, 0.5-1' Lab Sample ID: 880-21422-32

Date Collected: 11/04/22 14:51 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 21:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 21:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 21:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 21:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 13:52	11/15/22 21:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 13:52	11/15/22 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 13:52*	*11/15/22 21:33*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/14/22 13:52*	*11/15/22 21:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 02:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 02:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/14/22 10:19*	*11/15/22 02:39*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/14/22 10:19*	*11/15/22 02:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		4.99		mg/Kg			11/16/22 11:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-17, 0-0.5'

Date Collected: 11/04/22 15:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 21:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 21:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 21:54	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/14/22 13:52	11/15/22 21:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 21:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 13:52	11/15/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/14/22 13:52*	*11/15/22 21:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/14/22 13:52*	*11/15/22 21:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/16/22 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**129**		50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:00	1
Diesel Range Organics (Over C10-C28)	**129**		50.0		mg/Kg		11/14/22 10:19	11/15/22 03:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:00*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:00*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**611**		4.95		mg/Kg			11/16/22 11:50	1

Client Sample ID: S-17, 0.5-1'

Date Collected: 11/04/22 15:01
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-34
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 15:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 15:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 15:49	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 15:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 15:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/14/22 14:08*	*11/15/22 15:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/14/22 14:08*	*11/15/22 15:49*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-17, 0.5-1' Lab Sample ID: 880-21422-34

Date Collected: 11/04/22 15:01 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:21*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		5.03		mg/Kg			11/16/22 12:07	1

Client Sample ID: S-18, 0-0.5' Lab Sample ID: 880-21422-35

Date Collected: 11/04/22 15:10 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 16:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 16:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 16:27	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/14/22 14:08	11/15/22 16:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 16:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/14/22 14:08	11/15/22 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/14/22 14:08*	*11/15/22 16:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/14/22 14:08*	*11/15/22 16:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-18, 0-0.5'
Lab Sample ID: 880-21422-35
Date Collected: 11/04/22 15:10 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:42*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/14/22 10:19*	*11/15/22 03:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**387**		5.02		mg/Kg			11/16/22 12:13	1

Client Sample ID: S-18, 0.5-1'
Lab Sample ID: 880-21422-36
Date Collected: 11/04/22 15:11 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 16:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 16:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 16:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 16:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 16:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/14/22 14:08*	*11/15/22 16:53*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/14/22 14:08*	*11/15/22 16:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 04:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 04:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:04*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6080**		49.7		mg/Kg			11/16/22 12:19	10

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-19, 0-0.5'
Lab Sample ID: 880-21422-37
Date Collected: 11/04/22 15:20 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 17:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 17:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 17:19	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 17:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 17:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/14/22 14:08*	*11/15/22 17:19*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/14/22 14:08*	*11/15/22 17:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.7**		49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 04:25	1
Diesel Range Organics (Over C10-C28)	**77.7**		49.9		mg/Kg		11/14/22 10:19	11/15/22 04:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:25*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		4.96		mg/Kg			11/16/22 12:24	1

Client Sample ID: S-19, 0.5-1'
Lab Sample ID: 880-21422-38
Date Collected: 11/04/22 15:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 17:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 17:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 17:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 17:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 17:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/14/22 14:08*	*11/15/22 17:46*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*11/14/22 14:08*	*11/15/22 17:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-19, 0.5-1' Lab Sample ID: 880-21422-38
Date Collected: 11/04/22 15:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 04:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 04:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/15/22 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:46*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*11/14/22 10:19*	*11/15/22 04:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		5.00		mg/Kg			11/16/22 12:30	1

Client Sample ID: S-20, 0-0.5' Lab Sample ID: 880-21422-39
Date Collected: 11/04/22 15:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 18:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 18:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 18:12	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 18:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 18:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/14/22 14:08*	*11/15/22 18:12*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/14/22 14:08*	*11/15/22 18:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 05:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 05:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-20, 0-0.5' Lab Sample ID: 880-21422-39

Date Collected: 11/04/22 15:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/14/22 10:19	11/15/22 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/14/22 10:19*	*11/15/22 05:07*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/14/22 10:19*	*11/15/22 05:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.3**		4.96		mg/Kg			11/16/22 12:36	1

Client Sample ID: S-20, 0.5-1' Lab Sample ID: 880-21422-40

Date Collected: 11/04/22 15:31 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 18:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 18:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 18:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/14/22 14:08	11/15/22 18:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 18:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/14/22 14:08	11/15/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/14/22 14:08*	*11/15/22 18:39*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*11/14/22 14:08*	*11/15/22 18:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/22 09:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/15/22 05:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/15/22 05:29	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/14/22 10:19	11/15/22 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/14/22 10:19*	*11/15/22 05:29*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/14/22 10:19*	*11/15/22 05:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.3**		4.98		mg/Kg			11/16/22 12:41	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-21, 0-0.5'
Lab Sample ID: 880-21422-41
Date Collected: 11/04/22 15:40 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 19:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:05*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*11/11/22 09:33*	*11/13/22 13:39*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/11/22 09:33*	*11/13/22 13:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		5.04		mg/Kg			11/15/22 14:46	1

Client Sample ID: S-21, 0.5-1'
Lab Sample ID: 880-21422-42
Date Collected: 11/04/22 15:41 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 19:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 19:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:32*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-21, 0.5-1' Lab Sample ID: 880-21422-42
Date Collected: 11/04/22 15:41 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 21:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 21:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*11/11/22 10:23*	*11/13/22 21:25*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*11/11/22 10:23*	*11/13/22 21:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		5.02		mg/Kg			11/15/22 14:53	1

Client Sample ID: S-22, 0-0.5' Lab Sample ID: 880-21422-43
Date Collected: 11/04/22 15:50 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 19:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 19:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 19:58	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 19:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 19:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:58*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/14/22 14:08*	*11/15/22 21:44*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/14/22 14:08*	*11/15/22 19:58*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/14/22 14:08*	*11/15/22 21:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/11/22 10:23	11/13/22 22:28	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-22, 0-0.5' Lab Sample ID: 880-21422-43

Date Collected: 11/04/22 15:50 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/22 10:23	11/13/22 22:28	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/22 10:23	11/13/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*11/11/22 10:23*	*11/13/22 22:28*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*11/11/22 10:23*	*11/13/22 22:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		5.01		mg/Kg			11/15/22 15:00	1

Client Sample ID: S-22, 0.5-1' Lab Sample ID: 880-21422-44

Date Collected: 11/04/22 15:51 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 22:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 22:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 22:10	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 22:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/15/22 22:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/15/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/14/22 14:08*	*11/15/22 22:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*11/14/22 14:08*	*11/15/22 22:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 22:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 22:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/11/22 10:23*	*11/13/22 22:49*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*11/11/22 10:23*	*11/13/22 22:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.9**		5.00		mg/Kg			11/15/22 15:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-23, 0-0.5'
Lab Sample ID: 880-21422-45
Date Collected: 11/04/22 16:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 22:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 22:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 22:36	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/14/22 14:08	11/15/22 22:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/14/22 14:08	11/15/22 22:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/14/22 14:08	11/15/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/14/22 14:08*	*11/15/22 22:36*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/14/22 14:08*	*11/15/22 22:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 23:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 23:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*11/11/22 10:23*	*11/13/22 23:11*	*1*
o-Terphenyl (Surr)	*134*	*S1+*	*70 - 130*	*11/11/22 10:23*	*11/13/22 23:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.7**		4.99		mg/Kg			11/15/22 15:14	1

Client Sample ID: S-23, 0.5-1'
Lab Sample ID: 880-21422-46
Date Collected: 11/04/22 16:01 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 23:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 23:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 23:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/22 14:08	11/15/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:02*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-23, 0.5-1' Lab Sample ID: 880-21422-46
Date Collected: 11/04/22 16:01 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*11/11/22 10:23*	*11/13/22 23:32*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*11/11/22 10:23*	*11/13/22 23:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.7**		5.05		mg/Kg			11/16/22 17:57	1

Client Sample ID: S-24, 0-0.5' Lab Sample ID: 880-21422-47
Date Collected: 11/04/22 16:10 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 23:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:28*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:52	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-24, 0-0.5' Lab Sample ID: 880-21422-47

Date Collected: 11/04/22 16:10 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/13/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/11/22 10:23*	*11/13/22 23:52*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*11/11/22 10:23*	*11/13/22 23:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.7**		5.02		mg/Kg			11/16/22 18:19	1

Client Sample ID: S-24, 0.5-1' Lab Sample ID: 880-21422-48

Date Collected: 11/04/22 16:11 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 23:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 14:08	11/15/22 23:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 14:08	11/15/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:54*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/14/22 14:08*	*11/15/22 23:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/14/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/14/22 00:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/14/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*11/11/22 10:23*	*11/14/22 00:12*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*11/11/22 10:23*	*11/14/22 00:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.1**		4.98		mg/Kg			11/16/22 18:26	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-25, 0-0.5'
Lab Sample ID: 880-21422-49
Date Collected: 11/04/22 16:20 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/16/22 00:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/16/22 00:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/16/22 00:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/16/22 00:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/22 14:08	11/16/22 00:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/22 14:08	11/16/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/14/22 14:08*	*11/16/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/14/22 14:08*	*11/16/22 00:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/11/22 10:23*	*11/14/22 00:32*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*11/11/22 10:23*	*11/14/22 00:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.0**		4.97		mg/Kg			11/16/22 18:33	1

Client Sample ID: S-25, 0.5-1'
Lab Sample ID: 880-21422-50
Date Collected: 11/04/22 16:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/16/22 00:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/16/22 00:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/16/22 00:47	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/14/22 14:08	11/16/22 00:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/16/22 00:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 14:08	11/16/22 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/14/22 14:08*	*11/16/22 00:47*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*11/14/22 14:08*	*11/16/22 00:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-25, 0.5-1' **Lab Sample ID: 880-21422-50**
Date Collected: 11/04/22 16:21 **Matrix: Solid**
Date Received: 11/10/22 08:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/16/22 11:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 10:23	11/14/22 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/11/22 10:23*	*11/14/22 00:53*	*1*
o-Terphenyl (Surr)	*137*	*S1+*	*70 - 130*	*11/11/22 10:23*	*11/14/22 00:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		5.01		mg/Kg			11/16/22 18:40	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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)
880-21422-1	S-1, 0-0.5'	96	100
880-21422-2	S-1, 0.5-1'	98	86
880-21422-3	S-2, 0-0.5'	98	101
880-21422-4	S-2, 0.5-1'	94	112
880-21422-5	S-3, 0-0.5'	80	72
880-21422-6	S-3, 0.5-1'	104	110
880-21422-7	S-4, 0-0.5'	98	98
880-21422-8	S-4, 0.5-1'	94	100
880-21422-9	S-5, 0-0.5'	95	98
880-21422-10	S-5, 0.5-1'	103	91
880-21422-11	S-6, 0-0.5'	93	100
880-21422-12	S-6, 0.5-1'	104	89
880-21422-13	S-7, 0-0.5'	96	103
880-21422-14	S-7, 0.5-1'	90	103
880-21422-14 MS	S-7, 0.5-1'	104	105
880-21422-14 MSD	S-7, 0.5-1'	100	107
880-21422-15	S-8, 0-0.5'	70	104
880-21422-16	S-8, 0.5-1'	100	105
880-21422-17	S-9, 0-0.5'	83	103
880-21422-18	S-9, 0.5-1'	94	97
880-21422-19	S-10, 0-0.5'	86	112
880-21422-20	S-10, 0.5-1'	97	103
880-21422-21	S-11, 0-0.5'	87	114
880-21422-22	S-11, 0.5-1'	92	109
880-21422-23	S-12, 0-0.5'	96	108
880-21422-24	S-12, 0.5-1'	88	97
880-21422-25	S-13, 0-0.5'	70	105
880-21422-26	S-13, 0.5-1'	93	115
880-21422-27	S-14, 0-0.5'	97	108
880-21422-28	S-14, 0.5-1'	95	100
880-21422-29	S-15, 0-0.5'	102	104
880-21422-30	S-15, 0.5-1'	99	104
880-21422-31	S-16, 0-0.5'	83	99
880-21422-31 MS	S-16, 0-0.5'	100	104
880-21422-31 MSD	S-16, 0-0.5'	100	103
880-21422-32	S-16, 0.5-1'	100	109
880-21422-33	S-17, 0-0.5'	102	102
880-21422-34	S-17, 0.5-1'	95	95
880-21422-34 MS	S-17, 0.5-1'	104	97
880-21422-34 MSD	S-17, 0.5-1'	114	105
880-21422-35	S-18, 0-0.5'	117	105
880-21422-36	S-18, 0.5-1'	108	89
880-21422-37	S-19, 0-0.5'	113	96
880-21422-38	S-19, 0.5-1'	111	88
880-21422-39	S-20, 0-0.5'	112	95
880-21422-40	S-20, 0.5-1'	81	87
880-21422-41	S-21, 0-0.5'	124	100
880-21422-42	S-21, 0.5-1'	111	92
880-21422-43	S-22, 0-0.5'	115	100

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21422-43	S-22, 0-0.5'	87	78
880-21422-44	S-22, 0.5-1'	93	83
880-21422-45	S-23, 0-0.5'	110	97
880-21422-46	S-23, 0.5-1'	110	96
880-21422-47	S-24, 0-0.5'	114	91
880-21422-48	S-24, 0.5-1'	121	107
880-21422-49	S-25, 0-0.5'	118	101
880-21422-50	S-25, 0.5-1'	117	88
LCS 880-39499/1-A	Lab Control Sample	106	113
LCS 880-39501/1-A	Lab Control Sample	86	102
LCS 880-39513/1-A	Lab Control Sample	104	101
LCS 880-39713/1-A	Lab Control Sample	85	106
LCSD 880-39499/2-A	Lab Control Sample Dup	104	114
LCSD 880-39501/2-A	Lab Control Sample Dup	94	103
LCSD 880-39513/2-A	Lab Control Sample Dup	114	100
LCSD 880-39713/2-A	Lab Control Sample Dup	92	97
MB 880-39259/5-A	Method Blank	77	104
MB 880-39499/5-A	Method Blank	81	98
MB 880-39501/5-A	Method Blank	78	105
MB 880-39513/5-A	Method Blank	64 S1-	89
MB 880-39713/5-A	Method Blank	81	100

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21422-1	S-1, 0-0.5'	98	97
880-21422-1 MS	S-1, 0-0.5'	75	68 S1-
880-21422-1 MSD	S-1, 0-0.5'	58 S1-	53 S1-
880-21422-2	S-1, 0.5-1'	84	85
880-21422-3	S-2, 0-0.5'	51 S1-	49 S1-
880-21422-4	S-2, 0.5-1'	67 S1-	69 S1-
880-21422-5	S-3, 0-0.5'	65 S1-	67 S1-
880-21422-6	S-3, 0.5-1'	62 S1-	65 S1-
880-21422-7	S-4, 0-0.5'	70	73
880-21422-8	S-4, 0.5-1'	83	87
880-21422-9	S-5, 0-0.5'	65 S1-	66 S1-
880-21422-10	S-5, 0.5-1'	78	80
880-21422-11	S-6, 0-0.5'	114	121
880-21422-12	S-6, 0.5-1'	110	115
880-21422-13	S-7, 0-0.5'	112	120
880-21422-14	S-7, 0.5-1'	90	95
880-21422-15	S-8, 0-0.5'	81	85
880-21422-16	S-8, 0.5-1'	93	96
880-21422-17	S-9, 0-0.5'	81	86

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21422-18	S-9, 0.5-1'	81	88
880-21422-19	S-10, 0-0.5'	88	94
880-21422-20	S-10, 0.5-1'	77	82
880-21422-21	S-11, 0-0.5'	117	114
880-21422-21 MS	S-11, 0-0.5'	93	78
880-21422-21 MSD	S-11, 0-0.5'	85	77
880-21422-22	S-11, 0.5-1'	95	91
880-21422-23	S-12, 0-0.5'	103	98
880-21422-24	S-12, 0.5-1'	97	92
880-21422-25	S-13, 0-0.5'	116	106
880-21422-26	S-13, 0.5-1'	101	96
880-21422-27	S-14, 0-0.5'	100	91
880-21422-28	S-14, 0.5-1'	109	102
880-21422-29	S-15, 0-0.5'	91	87
880-21422-30	S-15, 0.5-1'	93	89
880-21422-31	S-16, 0-0.5'	114	108
880-21422-32	S-16, 0.5-1'	100	96
880-21422-33	S-17, 0-0.5'	102	96
880-21422-34	S-17, 0.5-1'	124	114
880-21422-35	S-18, 0-0.5'	118	110
880-21422-36	S-18, 0.5-1'	100	95
880-21422-37	S-19, 0-0.5'	99	93
880-21422-38	S-19, 0.5-1'	95	92
880-21422-39	S-20, 0-0.5'	99	94
880-21422-40	S-20, 0.5-1'	102	96
880-21422-41	S-21, 0-0.5'	88	94
880-21422-42	S-21, 0.5-1'	115	128
880-21422-42 MS	S-21, 0.5-1'	108	102
880-21422-42 MSD	S-21, 0.5-1'	107	103
880-21422-43	S-22, 0-0.5'	118	137 S1+
880-21422-44	S-22, 0.5-1'	116	130
880-21422-45	S-23, 0-0.5'	117	134 S1+
880-21422-46	S-23, 0.5-1'	105	116
880-21422-47	S-24, 0-0.5'	110	125
880-21422-48	S-24, 0.5-1'	115	126
880-21422-49	S-25, 0-0.5'	110	128
880-21422-50	S-25, 0.5-1'	121	137 S1+
LCS 880-39298/2-A	Lab Control Sample	105	113
LCS 880-39314/2-A	Lab Control Sample	104	110
LCS 880-39325/2-A	Lab Control Sample	110	122
LCS 880-39417/2-A	Lab Control Sample	99	99
LCSD 880-39298/3-A	Lab Control Sample Dup	92	98
LCSD 880-39314/3-A	Lab Control Sample Dup	105	112
LCSD 880-39325/3-A	Lab Control Sample Dup	93	101
LCSD 880-39417/3-A	Lab Control Sample Dup	95	95
MB 880-39298/1-A	Method Blank	104	122
MB 880-39314/1-A	Method Blank	133 S1+	156 S1+
MB 880-39325/1-A	Method Blank	83	87
MB 880-39417/1-A	Method Blank	94	94

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39259/5-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39259

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 15:16	11/16/22 13:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/22 15:16	11/16/22 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*11/10/22 15:16*	*11/16/22 13:25*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 15:16*	*11/16/22 13:25*	*1*

Lab Sample ID: MB 880-39499/5-A
Matrix: Solid
Analysis Batch: 39575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 10:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 10:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 10:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/14/22 13:45	11/15/22 10:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:45	11/15/22 10:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 13:45	11/15/22 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/14/22 13:45*	*11/15/22 10:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/14/22 13:45*	*11/15/22 10:39*	*1*

Lab Sample ID: LCS 880-39499/1-A
Matrix: Solid
Analysis Batch: 39575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1063		mg/Kg		106	70 - 130		
Toluene			0.100	0.09516		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09661		mg/Kg		97	70 - 130		
m,p-Xylenes			0.200	0.2040		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-39499/2-A
Matrix: Solid
Analysis Batch: 39575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39499

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1078		mg/Kg		108	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: LCSD 880-39499/2-A
Matrix: Solid
Analysis Batch: 39575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39499

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09311		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09402		mg/Kg		94	70 - 130	3	35
m,p-Xylenes			0.200	0.1961		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09679		mg/Kg		97	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: MB 880-39501/5-A
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 12:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/14/22 13:52	11/15/22 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 13:52	11/15/22 12:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 13:52	11/15/22 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*11/14/22 13:52*	*11/15/22 12:40*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/14/22 13:52*	*11/15/22 12:40*	*1*

Lab Sample ID: LCS 880-39501/1-A
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08073		mg/Kg		81	70 - 130		
Toluene			0.100	0.08581		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08602		mg/Kg		86	70 - 130		
m,p-Xylenes			0.200	0.1548		mg/Kg		77	70 - 130		
o-Xylene			0.100	0.07472		mg/Kg		75	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-39501/2-A
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07854		mg/Kg		79	70 - 130	3	35
Toluene			0.100	0.08335		mg/Kg		83	70 - 130	3	35
Ethylbenzene			0.100	0.08141		mg/Kg		81	70 - 130	6	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: LCSD 880-39501/2-A
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1457		mg/Kg		73	70 - 130	6	35
o-Xylene			0.100	0.07303		mg/Kg		73	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-21422-14 MS
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: S-7, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09659		mg/Kg		97	70 - 130
Toluene	<0.00199	U	0.0998	0.1044		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.1030		mg/Kg		103	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1855		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0998	0.08966		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-21422-14 MSD
Matrix: Solid
Analysis Batch: 39581

Client Sample ID: S-7, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08774		mg/Kg		88	70 - 130	10	35
Toluene	<0.00199	U	0.0996	0.09449		mg/Kg		95	70 - 130	10	35
Ethylbenzene	<0.00199	U	0.0996	0.09238		mg/Kg		93	70 - 130	11	35
m,p-Xylenes	<0.00398	U	0.199	0.1667		mg/Kg		84	70 - 130	11	35
o-Xylene	<0.00199	U	0.0996	0.08220		mg/Kg		82	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-39513/5-A
Matrix: Solid
Analysis Batch: 39610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39513

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 15:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 15:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 15:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/14/22 14:08	11/15/22 15:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 14:08	11/15/22 15:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 14:08	11/15/22 15:23	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	11/14/22 14:08	11/15/22 15:23	1
1,4-Difluorobenzene (Surr)	89		70 - 130	11/14/22 14:08	11/15/22 15:23	1

Lab Sample ID: LCS 880-39513/1-A
Matrix: Solid
Analysis Batch: 39610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08797		mg/Kg		88	70 - 130
Toluene	0.100	0.09075		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08517		mg/Kg		85	70 - 130
m,p-Xylenes	0.200	0.2041		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-39513/2-A
Matrix: Solid
Analysis Batch: 39610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39513

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09607		mg/Kg		96	70 - 130	9	35
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	15	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	24	35
m,p-Xylenes	0.200	0.2409		mg/Kg		120	70 - 130	17	35
o-Xylene	0.100	0.1173		mg/Kg		117	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-21422-34 MS
Matrix: Solid
Analysis Batch: 39610

Client Sample ID: S-17, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39513

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1063		mg/Kg		106	70 - 130
Toluene	<0.00201	U	0.100	0.1212		mg/Kg		121	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1172		mg/Kg		117	70 - 130
m,p-Xylenes	<0.00402	U	0.201	0.2582		mg/Kg		129	70 - 130
o-Xylene	<0.00201	U	0.100	0.1285		mg/Kg		128	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: 880-21422-34 MSD
Matrix: Solid
Analysis Batch: 39610

Client Sample ID: S-17, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39513

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1018		mg/Kg		103	70 - 130	4	35
Toluene	<0.00201	U	0.0990	0.1204		mg/Kg		122	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.1148		mg/Kg		116	70 - 130	2	35
m,p-Xylenes	<0.00402	U	0.198	0.2537		mg/Kg		128	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.1232		mg/Kg		124	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-39713/5-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39713

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/16/22 10:57	11/17/22 00:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/16/22 10:57	11/17/22 00:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/16/22 10:57*	*11/17/22 00:59*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/16/22 10:57*	*11/17/22 00:59*	*1*

Lab Sample ID: LCS 880-39713/1-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08679		mg/Kg		87	70 - 130		
Toluene			0.100	0.09007		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08826		mg/Kg		88	70 - 130		
m,p-Xylenes			0.200	0.1618		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08011		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-39713/2-A
Matrix: Solid
Analysis Batch: 39686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39713

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08832		mg/Kg		88	70 - 130	2	35
Toluene			0.100	0.09197		mg/Kg		92	70 - 130	2	35

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: LCSD 880-39713/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	4	35
m,p-Xylenes			0.200	0.1686		mg/Kg		84	70 - 130	4	35
o-Xylene			0.100	0.08300		mg/Kg		83	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-21422-31 MS — **Client Sample ID: S-16, 0-0.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.09784		mg/Kg		98	70 - 130
Toluene	<0.00198	U	0.0998	0.09623		mg/Kg		96	70 - 130
Ethylbenzene	<0.00198	U	0.0998	0.09642		mg/Kg		97	70 - 130
m,p-Xylenes	<0.00396	U	0.200	0.1720		mg/Kg		86	70 - 130
o-Xylene	<0.00198	U	0.0998	0.08535		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-21422-31 MSD — **Client Sample ID: S-16, 0-0.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39686 — **Prep Batch: 39713**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.09087		mg/Kg		90	70 - 130	7	35
Toluene	<0.00198	U	0.101	0.09616		mg/Kg		95	70 - 130	0	35
Ethylbenzene	<0.00198	U	0.101	0.09396		mg/Kg		93	70 - 130	3	35
m,p-Xylenes	<0.00396	U	0.202	0.1703		mg/Kg		84	70 - 130	1	35
o-Xylene	<0.00198	U	0.101	0.08395		mg/Kg		83	70 - 130	2	35

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

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

Lab Sample ID: MB 880-39298/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39373 — **Prep Batch: 39298**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 09:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 09:25	1

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: MB 880-39298/1-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39298

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 09:33	11/13/22 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*11/11/22 09:33*	*11/13/22 09:25*	*1*
o-Terphenyl (Surr)	*122*		*70 - 130*	*11/11/22 09:33*	*11/13/22 09:25*	*1*

Lab Sample ID: LCS 880-39298/2-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1126		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1101		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-39298/3-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	927.9		mg/Kg		93	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	959.4		mg/Kg		96	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-39314/1-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 20:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 10:23	11/13/22 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*11/11/22 10:23*	*11/13/22 20:21*	*1*
o-Terphenyl (Surr)	*156*	*S1+*	*70 - 130*	*11/11/22 10:23*	*11/13/22 20:21*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: LCS 880-39314/2-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39314

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1018		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-39314/3-A
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39314

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1031		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1133		mg/Kg		113	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*105*		*70 - 130*
o-Terphenyl (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-21422-42 MS
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: S-21, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1150		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1040		mg/Kg		103	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-21422-42 MSD
Matrix: Solid
Analysis Batch: 39373

Client Sample ID: S-21, 0.5-1'
Prep Type: Total/NA
Prep Batch: 39314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1123		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1068		mg/Kg		105	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

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

Lab Sample ID: 880-21422-42 MSD **Client Sample ID: S-21, 0.5-1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39373 **Prep Batch: 39314**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: MB 880-39325/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39385 **Prep Batch: 39325**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 08:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:49	11/14/22 08:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	11/11/22 11:49	11/14/22 08:54	1
o-Terphenyl (Surr)	87		70 - 130	11/11/22 11:49	11/14/22 08:54	1

Lab Sample ID: LCS 880-39325/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39385 **Prep Batch: 39325**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1012		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	943.7		mg/Kg		94	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-39325/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39385 **Prep Batch: 39325**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	882.3		mg/Kg		88	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	866.2		mg/Kg		87	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	101		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: 880-21422-1 MS
Matrix: Solid
Analysis Batch: 39385

Client Sample ID: S-1, 0-0.5'
Prep Type: Total/NA
Prep Batch: 39325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	997	867.7		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	997	740.4		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*75*		*70 - 130*
o-Terphenyl (Surr)	*68*	*S1-*	*70 - 130*

Lab Sample ID: 880-21422-1 MSD
Matrix: Solid
Analysis Batch: 39385

Client Sample ID: S-1, 0-0.5'
Prep Type: Total/NA
Prep Batch: 39325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	999	595.4	F1 F2	mg/Kg		57	70 - 130	37	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	999	585.9	F1 F2	mg/Kg		59	70 - 130	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*58*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*53*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-39417/1-A
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39417

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/14/22 10:19	11/14/22 20:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*11/14/22 10:19*	*11/14/22 20:35*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*11/14/22 10:19*	*11/14/22 20:35*	*1*

Lab Sample ID: LCS 880-39417/2-A
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	927.9		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)			1000	929.0		mg/Kg		93	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

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

Lab Sample ID: LCS 880-39417/2-A
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39417

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

Lab Sample ID: LCSD 880-39417/3-A
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	841.4		mg/Kg		84	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	901.4		mg/Kg		90	70 - 130	3	20

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

Lab Sample ID: 880-21422-21 MS
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: S-11, 0-0.5'
Prep Type: Total/NA
Prep Batch: 39417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	811.9		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	892.6		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	78		70 - 130

Lab Sample ID: 880-21422-21 MSD
Matrix: Solid
Analysis Batch: 39383

Client Sample ID: S-11, 0-0.5'
Prep Type: Total/NA
Prep Batch: 39417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	846.9		mg/Kg		83	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	894.2		mg/Kg		90	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	77		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39357/1-A
Matrix: Solid
Analysis Batch: 39627

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/15/22 13:13	1

Lab Sample ID: LCS 880-39357/2-A
Matrix: Solid
Analysis Batch: 39627

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-39357/3-A
Matrix: Solid
Analysis Batch: 39627

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	265.4		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-21422-45 MS
Matrix: Solid
Analysis Batch: 39627

Client Sample ID: S-23, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	19.7		250	281.7		mg/Kg		105	90 - 110		

Lab Sample ID: 880-21422-45 MSD
Matrix: Solid
Analysis Batch: 39627

Client Sample ID: S-23, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.7		250	270.3		mg/Kg		100	90 - 110	4	20

Lab Sample ID: MB 880-39453/1-A
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/16/22 21:03	1

Lab Sample ID: LCS 880-39453/2-A
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.8		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-39453/3-A
Matrix: Solid
Analysis Batch: 39653

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.0		mg/Kg		101	90 - 110	4	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-21422-1 MS
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: S-1, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.7	F1	249	355.2	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-21422-1 MSD
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: S-1, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.7	F1	249	365.7	F1	mg/Kg		123	90 - 110	3	20

Lab Sample ID: 880-21422-11 MS
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: S-6, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1120		252	1324	4	mg/Kg		81	90 - 110		

Lab Sample ID: 880-21422-11 MSD
Matrix: Solid
Analysis Batch: 39653

Client Sample ID: S-6, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1120		252	1402	4	mg/Kg		112	90 - 110	6	20

Lab Sample ID: MB 880-39454/1-A
Matrix: Solid
Analysis Batch: 39727

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/16/22 09:52	1

Lab Sample ID: LCS 880-39454/2-A
Matrix: Solid
Analysis Batch: 39727

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.0		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-39454/3-A
Matrix: Solid
Analysis Batch: 39727

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-21422-21 MS
Matrix: Solid
Analysis Batch: 39727

Client Sample ID: S-11, 0-0.5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	104		253	343.3		mg/Kg		95	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-21422-21 MSD — **Client Sample ID: S-11, 0-0.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104		253	341.5		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 880-21422-31 MS — **Client Sample ID: S-16, 0-0.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	45.9		251	289.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-21422-31 MSD — **Client Sample ID: S-16, 0-0.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	45.9		251	289.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-39455/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39728

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/16/22 16:53	1

Lab Sample ID: LCS 880-39455/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39728

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	269.5		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-39455/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39728

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	273.7		mg/Kg		109	90 - 110	2	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

GC VOA

Prep Batch: 39259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39259/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 39499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	5035	
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	5035	
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	5035	
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	5035	
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	5035	
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	5035	
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	5035	
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	5035	
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	5035	
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	5035	
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	5035	
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	5035	
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	5035	
MB 880-39499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 39501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	5035	
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	5035	
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	5035	
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	5035	
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	5035	
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	5035	
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	5035	
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	5035	
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	5035	
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	5035	
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	5035	
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	5035	
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	5035	
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	5035	
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	5035	
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	5035	
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	5035	
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	5035	
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	5035	
MB 880-39501/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39501/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39501/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21422-14 MS	S-7, 0.5-1'	Total/NA	Solid	5035	
880-21422-14 MSD	S-7, 0.5-1'	Total/NA	Solid	5035	

Prep Batch: 39513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC VOA (Continued)

Prep Batch: 39513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	5035	
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	5035	
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	5035	
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	5035	
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	5035	
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	5035	
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	5035	
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	5035	
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	5035	
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	5035	
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	5035	
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	5035	
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	5035	
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	5035	
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	5035	
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	5035	
MB 880-39513/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39513/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39513/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21422-34 MS	S-17, 0.5-1'	Total/NA	Solid	5035	
880-21422-34 MSD	S-17, 0.5-1'	Total/NA	Solid	5035	

Analysis Batch: 39575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	8021B	39499
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	8021B	39499
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	8021B	39499
MB 880-39499/5-A	Method Blank	Total/NA	Solid	8021B	39499
LCS 880-39499/1-A	Lab Control Sample	Total/NA	Solid	8021B	39499
LCSD 880-39499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39499

Analysis Batch: 39581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	8021B	39501

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC VOA (Continued)

Analysis Batch: 39581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	8021B	39501
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	8021B	39501
MB 880-39501/5-A	Method Blank	Total/NA	Solid	8021B	39501
LCS 880-39501/1-A	Lab Control Sample	Total/NA	Solid	8021B	39501
LCSD 880-39501/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39501
880-21422-14 MS	S-7, 0.5-1'	Total/NA	Solid	8021B	39501
880-21422-14 MSD	S-7, 0.5-1'	Total/NA	Solid	8021B	39501

Analysis Batch: 39610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	8021B	39513
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	8021B	39513
MB 880-39513/5-A	Method Blank	Total/NA	Solid	8021B	39513
LCS 880-39513/1-A	Lab Control Sample	Total/NA	Solid	8021B	39513
LCSD 880-39513/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39513
880-21422-34 MS	S-17, 0.5-1'	Total/NA	Solid	8021B	39513
880-21422-34 MSD	S-17, 0.5-1'	Total/NA	Solid	8021B	39513

Analysis Batch: 39630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC VOA (Continued)

Analysis Batch: 39630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	Total BTEX	
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	Total BTEX	
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 39686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	8021B	39713
MB 880-39259/5-A	Method Blank	Total/NA	Solid	8021B	39259
MB 880-39713/5-A	Method Blank	Total/NA	Solid	8021B	39713
LCS 880-39713/1-A	Lab Control Sample	Total/NA	Solid	8021B	39713

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC VOA (Continued)

Analysis Batch: 39686 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-39713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39713
880-21422-31 MS	S-16, 0-0.5'	Total/NA	Solid	8021B	39713
880-21422-31 MSD	S-16, 0-0.5'	Total/NA	Solid	8021B	39713

Prep Batch: 39713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	5035	
MB 880-39713/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39713/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39713/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21422-31 MS	S-16, 0-0.5'	Total/NA	Solid	5035	
880-21422-31 MSD	S-16, 0-0.5'	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 39298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	8015NM Prep	
MB 880-39298/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39298/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 39314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	8015NM Prep	
MB 880-39314/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39314/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39314/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21422-42 MS	S-21, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-42 MSD	S-21, 0.5-1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 39325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC Semi VOA (Continued)

Prep Batch: 39325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	8015NM Prep	
MB 880-39325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21422-1 MS	S-1, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-1 MSD	S-1, 0-0.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	8015B NM	39298
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	8015B NM	39314
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	8015B NM	39314
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	8015B NM	39314
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	8015B NM	39314
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	8015B NM	39314
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	8015B NM	39314
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	8015B NM	39314
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	8015B NM	39314
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	8015B NM	39314
MB 880-39298/1-A	Method Blank	Total/NA	Solid	8015B NM	39298
MB 880-39314/1-A	Method Blank	Total/NA	Solid	8015B NM	39314
LCS 880-39298/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39298
LCS 880-39314/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39314
LCSD 880-39298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39298
LCSD 880-39314/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39314
880-21422-42 MS	S-21, 0.5-1'	Total/NA	Solid	8015B NM	39314
880-21422-42 MSD	S-21, 0.5-1'	Total/NA	Solid	8015B NM	39314

Analysis Batch: 39383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	8015B NM	39417

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC Semi VOA (Continued)

Analysis Batch: 39383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	8015B NM	39417
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	8015B NM	39417
MB 880-39417/1-A	Method Blank	Total/NA	Solid	8015B NM	39417
LCS 880-39417/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39417
LCSD 880-39417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39417
880-21422-21 MS	S-11, 0-0.5'	Total/NA	Solid	8015B NM	39417
880-21422-21 MSD	S-11, 0-0.5'	Total/NA	Solid	8015B NM	39417

Analysis Batch: 39385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	8015B NM	39325
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	8015B NM	39325
MB 880-39325/1-A	Method Blank	Total/NA	Solid	8015B NM	39325
LCS 880-39325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39325
LCSD 880-39325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39325
880-21422-1 MS	S-1, 0-0.5'	Total/NA	Solid	8015B NM	39325
880-21422-1 MSD	S-1, 0-0.5'	Total/NA	Solid	8015B NM	39325

Prep Batch: 39417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

GC Semi VOA (Continued)

Prep Batch: 39417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	8015NM Prep	
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	8015NM Prep	
MB 880-39417/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39417/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21422-21 MS	S-11, 0-0.5'	Total/NA	Solid	8015NM Prep	
880-21422-21 MSD	S-11, 0-0.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-2	S-1, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-3	S-2, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-4	S-2, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-5	S-3, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-6	S-3, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-7	S-4, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-8	S-4, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-9	S-5, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-10	S-5, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-11	S-6, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-12	S-6, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-13	S-7, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-14	S-7, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-15	S-8, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-16	S-8, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-17	S-9, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-18	S-9, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-19	S-10, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-20	S-10, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-21	S-11, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-22	S-11, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-23	S-12, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-24	S-12, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-25	S-13, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-26	S-13, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-27	S-14, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-28	S-14, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-29	S-15, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-30	S-15, 0.5-1'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

GC Semi VOA (Continued)

Analysis Batch: 39495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-31	S-16, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-32	S-16, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-33	S-17, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-34	S-17, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-35	S-18, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-36	S-18, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-37	S-19, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-38	S-19, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-39	S-20, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-40	S-20, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-41	S-21, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-42	S-21, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-43	S-22, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-44	S-22, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-45	S-23, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-46	S-23, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-47	S-24, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-48	S-24, 0.5-1'	Total/NA	Solid	8015 NM	
880-21422-49	S-25, 0-0.5'	Total/NA	Solid	8015 NM	
880-21422-50	S-25, 0.5-1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-41	S-21, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-42	S-21, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-43	S-22, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-44	S-22, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-45	S-23, 0-0.5'	Soluble	Solid	DI Leach	
MB 880-39357/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39357/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39357/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21422-45 MS	S-23, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-45 MSD	S-23, 0-0.5'	Soluble	Solid	DI Leach	

Leach Batch: 39453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-2	S-1, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-3	S-2, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-4	S-2, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-5	S-3, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-6	S-3, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-7	S-4, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-8	S-4, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-9	S-5, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-10	S-5, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-11	S-6, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-12	S-6, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-13	S-7, 0-0.5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

HPLC/IC (Continued)

Leach Batch: 39453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-14	S-7, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-15	S-8, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-16	S-8, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-17	S-9, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-18	S-9, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-19	S-10, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-20	S-10, 0.5-1'	Soluble	Solid	DI Leach	
MB 880-39453/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39453/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39453/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21422-1 MS	S-1, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-1 MSD	S-1, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-11 MS	S-6, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-11 MSD	S-6, 0-0.5'	Soluble	Solid	DI Leach	

Leach Batch: 39454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-21	S-11, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-22	S-11, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-23	S-12, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-24	S-12, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-25	S-13, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-26	S-13, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-27	S-14, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-28	S-14, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-29	S-15, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-30	S-15, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-31	S-16, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-32	S-16, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-33	S-17, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-34	S-17, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-35	S-18, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-36	S-18, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-37	S-19, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-38	S-19, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-39	S-20, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-40	S-20, 0.5-1'	Soluble	Solid	DI Leach	
MB 880-39454/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39454/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39454/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21422-21 MS	S-11, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-21 MSD	S-11, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-31 MS	S-16, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-31 MSD	S-16, 0-0.5'	Soluble	Solid	DI Leach	

Leach Batch: 39455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-46	S-23, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-47	S-24, 0-0.5'	Soluble	Solid	DI Leach	
880-21422-48	S-24, 0.5-1'	Soluble	Solid	DI Leach	
880-21422-49	S-25, 0-0.5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

HPLC/IC (Continued)

Leach Batch: 39455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-50	S-25, 0.5-1'	Soluble	Solid	DI Leach	
MB 880-39455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 39627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-41	S-21, 0-0.5'	Soluble	Solid	300.0	39357
880-21422-42	S-21, 0.5-1'	Soluble	Solid	300.0	39357
880-21422-43	S-22, 0-0.5'	Soluble	Solid	300.0	39357
880-21422-44	S-22, 0.5-1'	Soluble	Solid	300.0	39357
880-21422-45	S-23, 0-0.5'	Soluble	Solid	300.0	39357
MB 880-39357/1-A	Method Blank	Soluble	Solid	300.0	39357
LCS 880-39357/2-A	Lab Control Sample	Soluble	Solid	300.0	39357
LCSD 880-39357/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39357
880-21422-45 MS	S-23, 0-0.5'	Soluble	Solid	300.0	39357
880-21422-45 MSD	S-23, 0-0.5'	Soluble	Solid	300.0	39357

Analysis Batch: 39653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-1	S-1, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-2	S-1, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-3	S-2, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-4	S-2, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-5	S-3, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-6	S-3, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-7	S-4, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-8	S-4, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-9	S-5, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-10	S-5, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-11	S-6, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-12	S-6, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-13	S-7, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-14	S-7, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-15	S-8, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-16	S-8, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-17	S-9, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-18	S-9, 0.5-1'	Soluble	Solid	300.0	39453
880-21422-19	S-10, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-20	S-10, 0.5-1'	Soluble	Solid	300.0	39453
MB 880-39453/1-A	Method Blank	Soluble	Solid	300.0	39453
LCS 880-39453/2-A	Lab Control Sample	Soluble	Solid	300.0	39453
LCSD 880-39453/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39453
880-21422-1 MS	S-1, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-1 MSD	S-1, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-11 MS	S-6, 0-0.5'	Soluble	Solid	300.0	39453
880-21422-11 MSD	S-6, 0-0.5'	Soluble	Solid	300.0	39453

Analysis Batch: 39727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-21	S-11, 0-0.5'	Soluble	Solid	300.0	39454

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

HPLC/IC (Continued)

Analysis Batch: 39727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-22	S-11, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-23	S-12, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-24	S-12, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-25	S-13, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-26	S-13, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-27	S-14, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-28	S-14, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-29	S-15, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-30	S-15, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-31	S-16, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-32	S-16, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-33	S-17, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-34	S-17, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-35	S-18, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-36	S-18, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-37	S-19, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-38	S-19, 0.5-1'	Soluble	Solid	300.0	39454
880-21422-39	S-20, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-40	S-20, 0.5-1'	Soluble	Solid	300.0	39454
MB 880-39454/1-A	Method Blank	Soluble	Solid	300.0	39454
LCS 880-39454/2-A	Lab Control Sample	Soluble	Solid	300.0	39454
LCSD 880-39454/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39454
880-21422-21 MS	S-11, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-21 MSD	S-11, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-31 MS	S-16, 0-0.5'	Soluble	Solid	300.0	39454
880-21422-31 MSD	S-16, 0-0.5'	Soluble	Solid	300.0	39454

Analysis Batch: 39728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21422-46	S-23, 0.5-1'	Soluble	Solid	300.0	39455
880-21422-47	S-24, 0-0.5'	Soluble	Solid	300.0	39455
880-21422-48	S-24, 0.5-1'	Soluble	Solid	300.0	39455
880-21422-49	S-25, 0-0.5'	Soluble	Solid	300.0	39455
880-21422-50	S-25, 0.5-1'	Soluble	Solid	300.0	39455
MB 880-39455/1-A	Method Blank	Soluble	Solid	300.0	39455
LCS 880-39455/2-A	Lab Control Sample	Soluble	Solid	300.0	39455
LCSD 880-39455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39455

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-1, 0-0.5'
Date Collected: 11/04/22 09:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-1
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			5.02 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 11:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 21:24	CH	EET MID

Client Sample ID: S-1, 0.5-1'
Date Collected: 11/04/22 09:15
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 21:45	CH	EET MID

Client Sample ID: S-2, 0-0.5'
Date Collected: 11/04/22 09:30
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-3
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			4.99 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 12:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 21:52	CH	EET MID

Client Sample ID: S-2, 0.5-1'
Date Collected: 11/04/22 09:45
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:08	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-2, 0.5-1'
Date Collected: 11/04/22 09:45
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 13:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:00	CH	EET MID

Client Sample ID: S-3, 0-0.5'
Date Collected: 11/04/22 10:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 13:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:07	CH	EET MID

Client Sample ID: S-3, 0.5-1'
Date Collected: 11/04/22 10:15
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 13:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		5			39653	11/16/22 22:28	CH	EET MID

Client Sample ID: S-4, 0-0.5'
Date Collected: 11/04/22 10:30
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 14:20	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-4, 0-0.5'
Lab Sample ID: 880-21422-7
Date Collected: 11/04/22 10:30 **Matrix: Solid**
Date Received: 11/10/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:35	CH	EET MID

Client Sample ID: S-4, 0.5-1'
Lab Sample ID: 880-21422-8
Date Collected: 11/04/22 10:45 **Matrix: Solid**
Date Received: 11/10/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:42	CH	EET MID

Client Sample ID: S-5, 0-0.5'
Lab Sample ID: 880-21422-9
Date Collected: 11/04/22 11:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 15:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:50	CH	EET MID

Client Sample ID: S-5, 0.5-1'
Lab Sample ID: 880-21422-10
Date Collected: 11/04/22 11:15 **Matrix: Solid**
Date Received: 11/10/22 08:39

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	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 15:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 22:57	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-6, 0-0.5'

Lab Sample ID: 880-21422-11
Matrix: Solid
Date Collected: 11/04/22 11:30
Date Received: 11/10/22 08:39

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	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 23:04	CH	EET MID

Client Sample ID: S-6, 0.5-1'

Lab Sample ID: 880-21422-12
Matrix: Solid
Date Collected: 11/04/22 11:45
Date Received: 11/10/22 08:39

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	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 16:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 23:25	CH	EET MID

Client Sample ID: S-7, 0-0.5'

Lab Sample ID: 880-21422-13
Matrix: Solid
Date Collected: 11/04/22 12:00
Date Received: 11/10/22 08:39

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	39499	11/14/22 13:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39575	11/15/22 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 17:20	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 23:32	CH	EET MID

Client Sample ID: S-7, 0.5-1'

Lab Sample ID: 880-21422-14
Matrix: Solid
Date Collected: 11/04/22 12:15
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-7, 0.5-1'
Date Collected: 11/04/22 12:15
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 17:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/16/22 23:54	CH	EET MID

Client Sample ID: S-8, 0-0.5'
Date Collected: 11/04/22 12:30
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 18:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:01	CH	EET MID

Client Sample ID: S-8, 0.5-1'
Date Collected: 11/04/22 12:45
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:08	CH	EET MID

Client Sample ID: S-9, 0-0.5'
Date Collected: 11/04/22 13:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 18:46	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-9, 0-0.5'

Lab Sample ID: 880-21422-17
Matrix: Solid
Date Collected: 11/04/22 13:00
Date Received: 11/10/22 08:39

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	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:15	CH	EET MID

Client Sample ID: S-9, 0.5-1'

Lab Sample ID: 880-21422-18
Matrix: Solid
Date Collected: 11/04/22 13:15
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 19:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:22	CH	EET MID

Client Sample ID: S-10, 0-0.5'

Lab Sample ID: 880-21422-19
Matrix: Solid
Date Collected: 11/04/22 13:30
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 19:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:29	CH	EET MID

Client Sample ID: S-10, 0.5-1'

Lab Sample ID: 880-21422-20
Matrix: Solid
Date Collected: 11/04/22 13:45
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39325	11/11/22 11:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39385	11/14/22 19:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39453	11/14/22 11:48	KS	EET MID
Soluble	Analysis	300.0		1			39653	11/17/22 00:36	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-11, 0-0.5'

Date Collected: 11/04/22 14:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 15:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 21:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 10:09	CH	EET MID

Client Sample ID: S-11, 0.5-1'

Date Collected: 11/04/22 14:05
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 10:26	CH	EET MID

Client Sample ID: S-12, 0-0.5'

Date Collected: 11/04/22 14:10
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/15/22 17:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 23:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 10:31	CH	EET MID

Client Sample ID: S-12, 0.5-1'

Date Collected: 11/04/22 14:15
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-12, 0.5-1'

Lab Sample ID: 880-21422-24
Matrix: Solid
Date Collected: 11/04/22 14:15
Date Received: 11/10/22 08:39

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			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 23:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 10:37	CH	EET MID

Client Sample ID: S-13, 0-0.5'

Lab Sample ID: 880-21422-25
Matrix: Solid
Date Collected: 11/04/22 14:20
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 23:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 10:43	CH	EET MID

Client Sample ID: S-13, 0.5-1'

Lab Sample ID: 880-21422-26
Matrix: Solid
Date Collected: 11/04/22 14:21
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 00:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:00	CH	EET MID

Client Sample ID: S-14, 0-0.5'

Lab Sample ID: 880-21422-27
Matrix: Solid
Date Collected: 11/04/22 14:30
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 00:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-14, 0-0.5'
Date Collected: 11/04/22 14:30
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:05	CH	EET MID

Client Sample ID: S-14, 0.5-1'
Date Collected: 11/04/22 14:31
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 00:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:11	CH	EET MID

Client Sample ID: S-15, 0-0.5'
Date Collected: 11/04/22 14:40
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 01:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:17	CH	EET MID

Client Sample ID: S-15, 0.5-1'
Date Collected: 11/04/22 14:41
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 20:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 01:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:22	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Client Sample ID: S-16, 0-0.5' Lab Sample ID: 880-21422-31
Date Collected: 11/04/22 14:50 **Matrix: Solid**
Date Received: 11/10/22 08:39

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	39713	11/16/22 10:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39686	11/17/22 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/17/22 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 02:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:28	CH	EET MID

Client Sample ID: S-16, 0.5-1' Lab Sample ID: 880-21422-32
Date Collected: 11/04/22 14:51 **Matrix: Solid**
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 21:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:45	CH	EET MID

Client Sample ID: S-17, 0-0.5' Lab Sample ID: 880-21422-33
Date Collected: 11/04/22 15:00 **Matrix: Solid**
Date Received: 11/10/22 08:39

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	39501	11/14/22 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39581	11/15/22 21:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 03:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 11:50	CH	EET MID

Client Sample ID: S-17, 0.5-1' Lab Sample ID: 880-21422-34
Date Collected: 11/04/22 15:01 **Matrix: Solid**
Date Received: 11/10/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-17, 0.5-1'
Date Collected: 11/04/22 15:01
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 03:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:07	CH	EET MID

Client Sample ID: S-18, 0-0.5'
Date Collected: 11/04/22 15:10
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 03:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:13	CH	EET MID

Client Sample ID: S-18, 0.5-1'
Date Collected: 11/04/22 15:11
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 16:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		10			39727	11/16/22 12:19	CH	EET MID

Client Sample ID: S-19, 0-0.5'
Date Collected: 11/04/22 15:20
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 04:25	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-19, 0-0.5'
Date Collected: 11/04/22 15:20
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:24	CH	EET MID

Client Sample ID: S-19, 0.5-1'
Date Collected: 11/04/22 15:21
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 04:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:30	CH	EET MID

Client Sample ID: S-20, 0-0.5'
Date Collected: 11/04/22 15:30
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 18:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 05:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:36	CH	EET MID

Client Sample ID: S-20, 0.5-1'
Date Collected: 11/04/22 15:31
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/15/22 09:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39417	11/14/22 10:19	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/15/22 05:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39454	11/14/22 11:49	KS	EET MID
Soluble	Analysis	300.0		1			39727	11/16/22 12:41	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-21, 0-0.5'

Date Collected: 11/04/22 15:40
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39298	11/11/22 09:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 13:39	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39357	11/11/22 17:26	KS	EET MID
Soluble	Analysis	300.0		1			39627	11/15/22 14:46	CH	EET MID

Client Sample ID: S-21, 0.5-1'

Date Collected: 11/04/22 15:41
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 21:25	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39357	11/11/22 17:26	KS	EET MID
Soluble	Analysis	300.0		1			39627	11/15/22 14:53	CH	EET MID

Client Sample ID: S-22, 0-0.5'

Date Collected: 11/04/22 15:50
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 19:58	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 21:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 22:28	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39357	11/11/22 17:26	KS	EET MID
Soluble	Analysis	300.0		1			39627	11/15/22 15:00	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-22, 0.5-1'

Date Collected: 11/04/22 15:51
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 22:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 22:49	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39357	11/11/22 17:26	KS	EET MID
Soluble	Analysis	300.0		1			39627	11/15/22 15:07	CH	EET MID

Client Sample ID: S-23, 0-0.5'

Date Collected: 11/04/22 16:00
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 23:11	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39357	11/11/22 17:26	KS	EET MID
Soluble	Analysis	300.0		1			39627	11/15/22 15:14	CH	EET MID

Client Sample ID: S-23, 0.5-1'

Date Collected: 11/04/22 16:01
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 23:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 23:32	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39455	11/14/22 11:51	KS	EET MID
Soluble	Analysis	300.0		1			39728	11/16/22 17:57	CH	EET MID

Client Sample ID: S-24, 0-0.5'

Date Collected: 11/04/22 16:10
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-24, 0-0.5'

Lab Sample ID: 880-21422-47
Matrix: Solid
Date Collected: 11/04/22 16:10
Date Received: 11/10/22 08:39

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			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/13/22 23:52	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39455	11/14/22 11:51	KS	EET MID
Soluble	Analysis	300.0		1			39728	11/16/22 18:19	CH	EET MID

Client Sample ID: S-24, 0.5-1'

Lab Sample ID: 880-21422-48
Matrix: Solid
Date Collected: 11/04/22 16:11
Date Received: 11/10/22 08:39

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	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/15/22 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/14/22 00:12	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39455	11/14/22 11:51	KS	EET MID
Soluble	Analysis	300.0		1			39728	11/16/22 18:26	CH	EET MID

Client Sample ID: S-25, 0-0.5'

Lab Sample ID: 880-21422-49
Matrix: Solid
Date Collected: 11/04/22 16:20
Date Received: 11/10/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/16/22 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/14/22 00:32	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39455	11/14/22 11:51	KS	EET MID
Soluble	Analysis	300.0		1			39728	11/16/22 18:33	CH	EET MID

Client Sample ID: S-25, 0.5-1'

Lab Sample ID: 880-21422-50
Matrix: Solid
Date Collected: 11/04/22 16:21
Date Received: 11/10/22 08:39

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	39513	11/14/22 14:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39610	11/16/22 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39630	11/16/22 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			39495	11/14/22 13:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39314	11/11/22 10:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39373	11/14/22 00:53	AJ	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Client Sample ID: S-25, 0.5-1'

Date Collected: 11/04/22 16:21
Date Received: 11/10/22 08:39

Lab Sample ID: 880-21422-50

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	39455	11/14/22 11:51	KS	EET MID
Soluble	Analysis	300.0		1			39728	11/16/22 18:40	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: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-21422-1
Project/Site: Select Energy-Red Tanks 2nd Spills SDG: 22-0104-10

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Select Energy-Red Tanks 2nd Spills

Job ID: 880-21422-1
SDG: 22-0104-10

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21422-1	S-1, 0-0.5'	Solid	11/04/22 09:00	11/10/22 08:39
880-21422-2	S-1, 0.5-1'	Solid	11/04/22 09:15	11/10/22 08:39
880-21422-3	S-2, 0-0.5'	Solid	11/04/22 09:30	11/10/22 08:39
880-21422-4	S-2, 0.5-1'	Solid	11/04/22 09:45	11/10/22 08:39
880-21422-5	S-3, 0-0.5'	Solid	11/04/22 10:00	11/10/22 08:39
880-21422-6	S-3, 0.5-1'	Solid	11/04/22 10:15	11/10/22 08:39
880-21422-7	S-4, 0-0.5'	Solid	11/04/22 10:30	11/10/22 08:39
880-21422-8	S-4, 0.5-1'	Solid	11/04/22 10:45	11/10/22 08:39
880-21422-9	S-5, 0-0.5'	Solid	11/04/22 11:00	11/10/22 08:39
880-21422-10	S-5, 0.5-1'	Solid	11/04/22 11:15	11/10/22 08:39
880-21422-11	S-6, 0-0.5'	Solid	11/04/22 11:30	11/10/22 08:39
880-21422-12	S-6, 0.5-1'	Solid	11/04/22 11:45	11/10/22 08:39
880-21422-13	S-7, 0-0.5'	Solid	11/04/22 12:00	11/10/22 08:39
880-21422-14	S-7, 0.5-1'	Solid	11/04/22 12:15	11/10/22 08:39
880-21422-15	S-8, 0-0.5'	Solid	11/04/22 12:30	11/10/22 08:39
880-21422-16	S-8, 0.5-1'	Solid	11/04/22 12:45	11/10/22 08:39
880-21422-17	S-9, 0-0.5'	Solid	11/04/22 13:00	11/10/22 08:39
880-21422-18	S-9, 0.5-1'	Solid	11/04/22 13:15	11/10/22 08:39
880-21422-19	S-10, 0-0.5'	Solid	11/04/22 13:30	11/10/22 08:39
880-21422-20	S-10, 0.5-1'	Solid	11/04/22 13:45	11/10/22 08:39
880-21422-21	S-11, 0-0.5'	Solid	11/04/22 14:00	11/10/22 08:39
880-21422-22	S-11, 0.5-1'	Solid	11/04/22 14:05	11/10/22 08:39
880-21422-23	S-12, 0-0.5'	Solid	11/04/22 14:10	11/10/22 08:39
880-21422-24	S-12, 0.5-1'	Solid	11/04/22 14:15	11/10/22 08:39
880-21422-25	S-13, 0-0.5'	Solid	11/04/22 14:20	11/10/22 08:39
880-21422-26	S-13, 0.5-1'	Solid	11/04/22 14:21	11/10/22 08:39
880-21422-27	S-14, 0-0.5'	Solid	11/04/22 14:30	11/10/22 08:39
880-21422-28	S-14, 0.5-1'	Solid	11/04/22 14:31	11/10/22 08:39
880-21422-29	S-15, 0-0.5'	Solid	11/04/22 14:40	11/10/22 08:39
880-21422-30	S-15, 0.5-1'	Solid	11/04/22 14:41	11/10/22 08:39
880-21422-31	S-16, 0-0.5'	Solid	11/04/22 14:50	11/10/22 08:39
880-21422-32	S-16, 0.5-1'	Solid	11/04/22 14:51	11/10/22 08:39
880-21422-33	S-17, 0-0.5'	Solid	11/04/22 15:00	11/10/22 08:39
880-21422-34	S-17, 0.5-1'	Solid	11/04/22 15:01	11/10/22 08:39
880-21422-35	S-18, 0-0.5'	Solid	11/04/22 15:10	11/10/22 08:39
880-21422-36	S-18, 0.5-1'	Solid	11/04/22 15:11	11/10/22 08:39
880-21422-37	S-19, 0-0.5'	Solid	11/04/22 15:20	11/10/22 08:39
880-21422-38	S-19, 0.5-1'	Solid	11/04/22 15:21	11/10/22 08:39
880-21422-39	S-20, 0-0.5'	Solid	11/04/22 15:30	11/10/22 08:39
880-21422-40	S-20, 0.5-1'	Solid	11/04/22 15:31	11/10/22 08:39
880-21422-41	S-21, 0-0.5'	Solid	11/04/22 15:40	11/10/22 08:39
880-21422-42	S-21, 0.5-1'	Solid	11/04/22 15:41	11/10/22 08:39
880-21422-43	S-22, 0-0.5'	Solid	11/04/22 15:50	11/10/22 08:39
880-21422-44	S-22, 0.5-1'	Solid	11/04/22 15:51	11/10/22 08:39
880-21422-45	S-23, 0-0.5'	Solid	11/04/22 16:00	11/10/22 08:39
880-21422-46	S-23, 0.5-1'	Solid	11/04/22 16:01	11/10/22 08:39
880-21422-47	S-24, 0-0.5'	Solid	11/04/22 16:10	11/10/22 08:39
880-21422-48	S-24, 0.5-1'	Solid	11/04/22 16:11	11/10/22 08:39
880-21422-49	S-25, 0-0.5'	Solid	11/04/22 16:20	11/10/22 08:39
880-21422-50	S-25, 0.5-1'	Solid	11/04/22 16:21	11/10/22 08:39

21422 No. 2815

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/9/2022 PAGE 1 OF 4

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME. Select Energy - Red Tanks 2nd Qtr

LAI PROJECT # 22-01104-10 COLLECTOR JH + AB

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

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

ANALYSES: BTEX ~~8021~~ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ~~8~~ | DIESEL - MOD 8015 ~~8~~ | OIL - MOD 8015 ~~8~~ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ~~4~~ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-1, 0-0.5'		11/4/22	0900	S	1				X		X X X X X	202
S-1, 0.5-1'			0915									
S-2, 0-0.5'			0930									
S-2, 0.5-1			0945									
S-3 0-0.5			1000									
S-3, 0.5-1			1015									
S-4, 0-0.5'			1030									
S-4 0.5-1			1045									
S-5, 0-0.5			1100									
S-5, 0.5-1			1115									
S-6, 0-0.5			1130									
S-6, 0.5-1			1145									
S-7 0-0.5			1200									
S-7, 0.5-1			1215									
S-8, 0-0.5			1230									
TOTAL												

880-21422 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 11/10 8:31	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 5.7/5.4 THERM# IR8 :30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

21422 No. 2816

CHAIN-OF-CUSTODY

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

DATE 11/9/2022 PAGE 2 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Select Energy - Red Tanks 2nd Spill

LAI PROJECT # 22-0104-10 COLLECTOR JA & AB

Data Reported to

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☐ MTBE ☐ TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-8, 0.5-1		11/4/21	1215	S	1				X		X	X X X
S-9, 0-0.5			1300									X
S-9, 0.5-1			1315									
S-10, 0-0.5			1330									
S-10, 0.5-1			1345									
S-11, 0-0.5			1400									
S-11, 0.5-1			1405									
S-12, 0-0.5			1480									
S-12, 0.5-1			1495									
S-13, 0-0.5			0800 1410									
S-13, 0.5-1			0815 1421									
S-14, 0-0.5			1530 1430									
S-14, 0.5-1			1548 1431									
S-15, 0-0.5			1600 1440									
S-15, 0.5-1			1625 1441									
TOTAL												

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	11/10 839	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

21422 No. 2817

CHAIN-OF-CUSTODY

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

Data Reported to

DATE. 11/9/2022 PAGE 3 OF 4

PO#. _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME. Select Energy - Red Tanks 2nd spill

LAI PROJECT # 22-0104-10 COLLECTOR JH & AD

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX 4 MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 4	DIESEL - MOD 8015 4	OIL - MOD 8015 4	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES 4 ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-14, 0-0.5		11/4/22	1450	S	1				X		X		X	X	X														X	
S-14, 0.5-1		"	1451	"	"				"		"		"	"	"														"	
S-17, 0-0.5			1500																											
S-17, 0.5-1			1501																											
S-18, 0-0.5			1510																											
S-18, 0.5-1			1511																											
S-19, 0-0.5			1520																											
S-19, 0.5-1			1521																											
S-20, 0-0.5			1530																											
S-20, 0.5-1			1531																											
S-21, 0-0.5			1540																											
S-21, 0.5-1			1541																											
S-22, 0-0.5			1550																											
S-22, 0.5-1			1551																											
S-23, 0-0.5		"	1600	"	"				"		"		"	"	"														"	
TOTAL																														

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	11/10 0839	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

11/17/2022

21422 No. 2818

CHAIN-OF-CUSTODY

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

DATE 11/9/2022 PAGE 4 OF 4

PO#. _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Select Energy - Red Tanks 2nd spill

LAI PROJECT #. 22-0104-10 COLLECTOR JH & AB

Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-23,0.5-1		11/4/22	1601	S	1				X		X		X	X	X														X	
TOTAL																														

Loc: 880
21422

RELINQUISHED BY (Signature) Brent Ballin DATE/TIME 11/10 0809 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

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

No. 2855

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/14/2022 PAGE 1 OF 1

PO# _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME Select Energy - Red Tanks 2nd spill

LAI PROJECT #. 22-0104-10 COLLECTOR JH & AB

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐	TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-24, 0-0.5		11/14/22	1610	S	1				X		X		X		X	X	X																								X			202
S-24, 0.5-1		"	1611	"	"				"		"		"		"	"	"																								"			
S-25, 0-0.5		"	1620	"	"				"		"		"		"	"	"																								"			
S-25, 0.5-1		"	1621	"	"				"		"		"		"	"	"																								"			
TOTAL																																													

880-21422 Chain of Custody

RELINQUISHED BY (Signature) DATE/TIME 11/14/22 1102 RECEIVED BY (Signature)

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

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

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.8/0.5 THERM# IR8 #30
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☒ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21422-1
SDG Number: 22-0104-10

Login Number: 21422
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Eurofins Midland

Job Notes

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

Authorization

Generated
11/17/2022 5:02:02 PM

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

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Red Tanks 2nd Spill

Project Number: 22-0104-10

Location: New Mexico

Lab Order Number: 2L09010

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/19/22

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-18 @ 1'	2L09010-01	Soil	12/07/22 13:50	12-09-2022 10:05
S-18 @ 3'	2L09010-02	Soil	12/07/22 13:52	12-09-2022 10:05
S-18 @ 5'	2L09010-03	Soil	12/07/22 13:54	12-09-2022 10:05
S-18 @ 10'	2L09010-04	Soil	12/07/22 13:56	12-09-2022 10:05
S-18 @ 13'	2L09010-05	Soil	12/07/22 13:58	12-09-2022 10:05
S-17 @ 1'	2L09010-06	Soil	12/07/22 13:36	12-09-2022 10:05
S-17 @ 3'	2L09010-07	Soil	12/07/22 13:38	12-09-2022 10:05
S-17 @ 5'	2L09010-08	Soil	12/07/22 13:40	12-09-2022 10:05
S-17 @ 10'	2L09010-09	Soil	12/07/22 13:42	12-09-2022 10:05
S-17 @ 13'	2L09010-10	Soil	12/07/22 13:44	12-09-2022 10:05
S-9 @ 1'	2L09010-11	Soil	12/07/22 14:25	12-09-2022 10:05
S-9 @ 3'	2L09010-12	Soil	12/07/22 14:27	12-09-2022 10:05
S-9 @ 5'	2L09010-13	Soil	12/07/22 14:29	12-09-2022 10:05
S-9 @ 10'	2L09010-14	Soil	12/07/22 14:32	12-09-2022 10:05
S-9 @ 11'	2L09010-15	Soil	12/07/22 14:35	12-09-2022 10:05
S-6 @ 1'	2L09010-16	Soil	12/07/22 14:45	12-09-2022 10:05
S-6 @ 3'	2L09010-17	Soil	12/07/22 14:46	12-09-2022 10:05
S-6 @ 5'	2L09010-18	Soil	12/07/22 14:47	12-09-2022 10:05
S-6 @ 10'	2L09010-19	Soil	12/07/22 14:48	12-09-2022 10:05
S-6 @ 13'	2L09010-20	Soil	12/07/22 14:49	12-09-2022 10:05
S-3 @ 1'	2L09010-21	Soil	12/07/22 15:00	12-09-2022 10:05
S-3 @ 3'	2L09010-22	Soil	12/07/22 15:01	12-09-2022 10:05
S-3 @ 5'	2L09010-23	Soil	12/07/22 15:02	12-09-2022 10:05
S-3 @ 10'	2L09010-24	Soil	12/07/22 15:03	12-09-2022 10:05
S-3 @ 13'	2L09010-25	Soil	12/07/22 15:04	12-09-2022 10:05
S-21 @ 1'	2L09010-26	Soil	12/07/22 15:10	12-09-2022 10:05
S-21 @ 3'	2L09010-27	Soil	12/07/22 15:11	12-09-2022 10:05
S-21 @ 5'	2L09010-28	Soil	12/07/22 15:12	12-09-2022 10:05
S-21 @ 10'	2L09010-29	Soil	12/07/22 15:13	12-09-2022 10:05

Toluene was detected above the reporting level in CCB2. There was no Toluene detected in the samples associated with these CCBs.

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-18 @ 1'

2L09010-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:03	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:03	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:03	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:03	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.5 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 09:24	TPH 8015M	
>C12-C28	**114**	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 09:24	TPH 8015M	
>C28-C35	**42.1**	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 09:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.4 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 09:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.5 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 09:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**156**	25.8	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 09:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**64.0**	1.03	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 09:23	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-18 @ 3'

2L09010-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:24	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:24	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:24	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:24	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:24*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.1 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:29	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:29	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.6 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 00:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 00:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 00:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**990**	1.04	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 10:03	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-18 @ 5'

2L09010-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:46	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:46	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:46	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:46	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 04:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.8 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 04:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:52	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:52	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 00:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 00:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.0 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 00:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 00:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3130**	5.21	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 11:23	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-18 @ 10'

2L09010-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00118	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:07	EPA 8021B	
Toluene	ND	0.00118	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:07	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:07	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:07	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 05:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.0 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 05:07*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:01	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:01	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 02:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11500**	29.4	mg/kg dry	25	P2L1404	12/14/22 10:33	12/15/22 11:36	EPA 300.0	
% Moisture	**15.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-18 @ 13'

2L09010-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:28	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:28	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:28	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:28	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L0904	12/09/22 11:17	12/13/22 05:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.2 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 05:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2L0904*	*12/09/22 11:17*	*12/13/22 05:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:24	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:24	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.0 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.2 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 02:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4150**	5.32	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 11:50	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-17 @ 1'

2L09010-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 07:50	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 07:50	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 07:50	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 07:50	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 07:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.1 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 07:50*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 07:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:47	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:47	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 02:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.4 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.0 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 02:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 02:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.9**	1.06	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 12:03	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-17 @ 3'

2L09010-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:11	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:11	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:11	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:11	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:11	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:11*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:10	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:10	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:10	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.6 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:10*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.6 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 03:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2100**	5.21	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 12:16	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-17 @ 5'

2L09010-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:32	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:32	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:32	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:32	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:33	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:33	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.7 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 03:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2470**	5.15	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 12:29	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-17 @ 10'

2L09010-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:54	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:54	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:54	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:54	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 08:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:54*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.6 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 08:54*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:56	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:56	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 03:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.5 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.2 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 03:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 03:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10700**	28.4	mg/kg dry	25	P2L1404	12/14/22 10:33	12/15/22 12:43	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-17 @ 13'

2L09010-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 09:57	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 09:57	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 09:57	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 09:57	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 09:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 09:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 09:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 04:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 04:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 04:19	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9370**	11.4	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 12:56	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-9 @ 1'

2L09010-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 10:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 10:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:42	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:42	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 04:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.9 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 04:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.1 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 04:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 04:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**419**	1.06	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 13:36	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-9 @ 3'

2L09010-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:40	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:40	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:40	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:40	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 10:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 10:40*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 10:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:05	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:05	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.9 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 05:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.2 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 05:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 05:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4770**	5.32	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 13:49	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-9 @ 5'

2L09010-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:01	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:01	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:01	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:01	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.2 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:28	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:28	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2L1304	12/13/22 11:45	12/14/22 05:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 05:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P2L1304*	*12/13/22 11:45*	*12/14/22 05:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/13/22 11:45	12/14/22 05:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6960**	11.1	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 14:29	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-9 @ 10'

2L09010-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:23	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:23	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:23	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:23	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.6 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:31	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:31	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 15:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.5 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 15:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 15:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8310**	11.2	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 14:42	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-9 @ 11'

2L09010-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:44	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:44	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:44	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:44	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 11:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.5 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 11:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:54	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:54	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 15:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.9 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 15:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.4 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 15:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 15:54	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8010**	11.2	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 14:55	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-6 @ 1'

2L09010-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:05	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:05	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:05	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:05	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.5 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:16	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:16	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 16:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.9 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 16:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 16:16	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**278**	1.04	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 15:09	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-6 @ 3'

2L09010-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:27	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:27	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:27	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:27	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:27*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.0 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:39	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:39	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 16:39	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.1 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 16:39*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.4 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 16:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 16:39	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2340**	5.32	mg/kg dry	5	P2L1404	12/14/22 10:33	12/15/22 15:22	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-6 @ 5'

2L09010-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:48	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:48	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:48	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:48	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 12:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 12:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:01	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:01	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.6 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.3 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 17:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6250**	10.9	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 15:35	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-6 @ 10'

2L09010-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 13:10	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 13:10	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 13:10	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 13:10	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2L1311	12/13/22 16:09	12/14/22 13:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.8 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 13:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2L1311*	*12/13/22 16:09*	*12/14/22 13:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:24	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:24	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.0 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.0 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 17:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5040**	10.9	mg/kg dry	10	P2L1404	12/14/22 10:33	12/15/22 15:49	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-6 @ 13'

2L09010-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:26	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:26	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:26	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:26	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 12:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 12:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:46	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:46	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 17:46	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.7 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:46*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.8 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 17:46*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 17:46	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1940**	1.10	mg/kg dry	1	P2L1404	12/14/22 10:33	12/15/22 16:02	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-3 @ 1'

2L09010-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:47	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:47	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:47	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:47	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 12:47	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.0 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 12:47*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 12:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:08	TPH 8015M	
>C12-C28	**168**	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:08	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.8 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.3 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**168**	26.0	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 18:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**168**	1.04	mg/kg dry	1	P2L1405	12/14/22 11:45	12/16/22 08:21	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-3 @ 3'

2L09010-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:08	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:08	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:08	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:08	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:08*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:31	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:31	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.2 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.9 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 18:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1090**	1.04	mg/kg dry	1	P2L1405	12/14/22 11:45	12/16/22 09:02	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-3 @ 5'

2L09010-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:29	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:29	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:29	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:29	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.0 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:29*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:53	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:53	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 18:53	TPH 8015M	
Surrogate: 1-Chlorooctane		*79.2 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:53*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.0 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 18:53*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 18:53	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5790**	10.9	mg/kg dry	10	P2L1405	12/14/22 11:45	12/16/22 09:15	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-3 @ 10'

2L09010-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00116	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:50	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:50	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:50	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:50	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 13:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:50*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.4 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 13:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:00	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:00	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:00	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.3 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:00*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.2 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 20:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**12300**	29.1	mg/kg dry	25	P2L1405	12/14/22 11:45	12/16/22 09:28	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-3 @ 13'

2L09010-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:11	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:11	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:11	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:11	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:11	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:11*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*90.7 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:11*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:23	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:23	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.6 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.1 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 20:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3380**	5.32	mg/kg dry	5	P2L1405	12/14/22 11:45	12/16/22 09:42	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-21 @ 1'

2L09010-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:32	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:32	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:32	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:32	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.7 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:32*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:45	TPH 8015M	
>C12-C28	**52.2**	26.3	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:45	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 20:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.4 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.8 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 20:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**52.2**	26.3	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 20:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**105**	1.05	mg/kg dry	1	P2L1405	12/14/22 11:45	12/16/22 09:55	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-21 @ 3'

2L09010-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:53	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:53	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:53	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:53	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 14:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*89.9 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:53*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 14:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:08	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:08	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.3 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.8 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 21:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**332**	1.14	mg/kg dry	1	P2L1405	12/14/22 11:45	12/16/22 10:08	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-21 @ 5'

2L09010-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00123	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:14	EPA 8021B	
Toluene	ND	0.00123	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:14	EPA 8021B	
Ethylbenzene	ND	0.00123	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:14	EPA 8021B	
Xylene (p/m)	ND	0.00247	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:14	EPA 8021B	
Xylene (o)	ND	0.00123	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*90.8 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 15:14*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 15:14*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	30.9	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:31	TPH 8015M	
>C12-C28	ND	30.9	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:31	TPH 8015M	
>C28-C35	ND	30.9	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:31	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.2 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:31*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.9 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	30.9	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 21:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14200**	30.9	mg/kg dry	25	P2L1405	12/14/22 11:45	12/16/22 10:22	EPA 300.0	
% Moisture	**19.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

S-21 @ 10'

2L09010-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:35	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:35	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:35	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:35	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P2L1502	12/15/22 09:11	12/15/22 15:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 15:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.2 %*	*80-120*		*P2L1502*	*12/15/22 09:11*	*12/15/22 15:35*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:54	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:54	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2L1305	12/13/22 12:00	12/15/22 21:54	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.8 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:54*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.2 %*	*70-130*		*P2L1305*	*12/13/22 12:00*	*12/15/22 21:54*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	12/13/22 12:00	12/15/22 21:54	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11000**	28.4	mg/kg dry	25	P2L1405	12/14/22 11:45	12/16/22 10:35	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P2L1301	12/13/22 09:03	12/13/22 09:06	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0904 - * DEFAULT PREP *** **										
Blank (P2L0904-BLK1)				Prepared: 12/09/22 Analyzed: 12/12/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*91.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*92.9*	*80-120*			
LCS (P2L0904-BS1)				Prepared: 12/09/22 Analyzed: 12/12/22						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0936	0.00100	"	0.100		93.6	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.4	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*98.8*	*80-120*			
LCS Dup (P2L0904-BSD1)				Prepared: 12/09/22 Analyzed: 12/12/22						
Benzene	0.0927	0.00100	mg/kg	0.100		92.7	80-120	9.53	20	
Toluene	0.0873	0.00100	"	0.100		87.3	80-120	7.02	20	
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120	4.26	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120	0.969	20	
Xylene (o)	0.0891	0.00100	"	0.100		89.1	80-120	4.72	20	
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			
Calibration Blank (P2L0904-CCB1)				Prepared: 12/09/22 Analyzed: 12/12/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*90.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*93.9*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0904 - * DEFAULT PREP *** **										
Calibration Blank (P2L0904-CCB2)				Prepared: 12/09/22 Analyzed: 12/13/22						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.3*	*80-120*			
Calibration Check (P2L0904-CCV1)				Prepared: 12/09/22 Analyzed: 12/12/22						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*101*	*75-125*			
Calibration Check (P2L0904-CCV2)				Prepared: 12/09/22 Analyzed: 12/13/22						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.6	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Calibration Check (P2L0904-CCV3)				Prepared: 12/09/22 Analyzed: 12/13/22						
Benzene	0.109	0.00100	mg/kg	0.100		109	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.0990	0.00100	"	0.100		99.0	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.5	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L0904 - * DEFAULT PREP *** **										
Matrix Spike (P2L0904-MS1)	**Source: 2L06010-24**			Prepared: 12/09/22 Analyzed: 12/13/22						
Benzene	ND	0.00114	mg/kg dry	0.114	ND		80-120			QM-05
Toluene	ND	0.00114	"	0.114	ND		80-120			QM-05
Ethylbenzene	0.0632	0.00114	"	0.114	ND	55.6	80-120			QM-05
Xylene (p/m)	0.00140	0.00227	"	0.227	ND	0.615	80-120			QM-05
Xylene (o)	0.0383	0.00114	"	0.114	ND	33.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.136*		*93.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.140*		*"*	*0.136*		*103*	*80-120*			
Matrix Spike Dup (P2L0904-MSD1)	**Source: 2L06010-24**			Prepared: 12/09/22 Analyzed: 12/13/22						
Benzene	ND	0.00114	mg/kg dry	0.114	ND		80-120		20	QM-05
Toluene	ND	0.00114	"	0.114	ND		80-120		20	QM-05
Ethylbenzene	0.0589	0.00114	"	0.114	ND	51.8	80-120	7.02	20	QM-05
Xylene (p/m)	0.0466	0.00227	"	0.227	ND	20.5	80-120	188	20	QM-05
Xylene (o)	0.0343	0.00114	"	0.114	ND	30.2	80-120	11.0	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.142*		*"*	*0.136*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.136*		*92.9*	*80-120*			
Batch P2L1311 - * DEFAULT PREP *** **										
Blank (P2L1311-BLK1)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.6*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1311 - * DEFAULT PREP *** **										
LCS (P2L1311-BS1)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.0977	0.00100	mg/kg	0.100		97.7	80-120			
Toluene	0.0983	0.00100	"	0.100		98.3	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		94.9	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		"	*0.120*		*111*	*80-120*			
LCS Dup (P2L1311-BSD1)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120	10.3	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	5.81	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120	2.61	20	
Xylene (p/m)	0.190	0.00200	"	0.200		94.8	80-120	0.163	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	2.86	20	
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P2L1311-CCB1)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.00		ug/kg							
Toluene	1.17		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.0*	*80-120*			
Calibration Blank (P2L1311-CCB2)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.00		ug/kg							
Toluene	1.05		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.0*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1311 - * DEFAULT PREP *** **										
Calibration Check (P2L1311-CCV1)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.2*	*75-125*			
Calibration Check (P2L1311-CCV2)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.130*		"	*0.120*		*109*	*75-125*			
Calibration Check (P2L1311-CCV3)				Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.114	0.00100	"	0.100		114	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.119	0.00100	"	0.100		119	80-120			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*108*	*75-125*			
Matrix Spike (P2L1311-MS1)		**Source: 2L09010-06**		Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.100	0.00106	mg/kg dry	0.106	ND	94.0	80-120			
Toluene	0.0694	0.00106	"	0.106	ND	65.2	80-120			QM-05
Ethylbenzene	0.0520	0.00106	"	0.106	ND	48.9	80-120			QM-05
Xylene (p/m)	0.0594	0.00213	"	0.213	ND	27.9	80-120			QM-05
Xylene (o)	0.0692	0.00106	"	0.106	ND	65.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.128*		*98.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.128*		*106*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1311 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2L1311-MSD1)	**Source: 2L09010-06**			Prepared: 12/13/22 Analyzed: 12/14/22						
Benzene	0.0984	0.00106	mg/kg dry	0.106	ND	92.5	80-120	1.60	20	
Toluene	0.0669	0.00106	"	0.106	ND	62.9	80-120	3.61	20	QM-05
Ethylbenzene	0.0503	0.00106	"	0.106	ND	47.3	80-120	3.29	20	QM-05
Xylene (p/m)	0.0668	0.00213	"	0.213	ND	31.4	80-120	11.6	20	QM-05
Xylene (o)	0.0689	0.00106	"	0.106	ND	64.8	80-120	0.462	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.128*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		*"*	*0.128*		*99.3*	*80-120*			
Batch P2L1502 - * DEFAULT PREP *** **										
Blank (P2L1502-BLK1)				Prepared & Analyzed: 12/15/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.109*		*"*	*0.120*		*90.7*	*80-120*			
LCS (P2L1502-BS1)				Prepared & Analyzed: 12/15/22						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.6	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1502 - * DEFAULT PREP *** **										
LCS Dup (P2L1502-BSD1)				Prepared & Analyzed: 12/15/22						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	1.64	20	
Toluene	0.0997	0.00100	"	0.100		99.7	80-120	2.64	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	1.16	20	
Xylene (p/m)	0.187	0.00200	"	0.200		93.4	80-120	1.30	20	
Xylene (o)	0.104	0.00100	"	0.100		104	80-120	1.51	20	
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P2L1502-CCB1)				Prepared & Analyzed: 12/15/22						
Benzene	0.00		ug/kg							
Toluene	1.19		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.3*	*80-120*			
Calibration Blank (P2L1502-CCB2)				Prepared & Analyzed: 12/15/22						
Benzene	0.00		ug/kg							
Toluene	1.19		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.109*		"	*0.120*		*91.0*	*80-120*			
Calibration Check (P2L1502-CCV1)				Prepared & Analyzed: 12/15/22						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		104	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.4*	*75-125*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1502 - * DEFAULT PREP *** **										
Calibration Check (P2L1502-CCV2)				Prepared & Analyzed: 12/15/22						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.118	0.00100	"	0.100		118	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		108	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Calibration Check (P2L1502-CCV3)				Prepared: 12/15/22 Analyzed: 12/16/22						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.120	0.00100	"	0.100		120	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*75-125*			
Matrix Spike (P2L1502-MS1)		**Source: 2L09010-29**		Prepared: 12/15/22 Analyzed: 12/16/22						
Benzene	0.0965	0.00114	mg/kg dry	0.114	ND	84.9	80-120			
Toluene	0.0981	0.00114	"	0.114	ND	86.3	80-120			
Ethylbenzene	0.110	0.00114	"	0.114	ND	96.7	80-120			
Xylene (p/m)	0.186	0.00227	"	0.227	ND	82.0	80-120			
Xylene (o)	0.0989	0.00114	"	0.114	ND	87.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.131*		"	*0.136*		*95.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.164*		"	*0.136*		*120*	*80-120*			
Matrix Spike Dup (P2L1502-MSD1)		**Source: 2L09010-29**		Prepared: 12/15/22 Analyzed: 12/16/22						
Benzene	0.0976	0.00114	mg/kg dry	0.114	ND	85.9	80-120	1.15	20	
Toluene	0.0975	0.00114	"	0.114	ND	85.8	80-120	0.546	20	
Ethylbenzene	0.108	0.00114	"	0.114	ND	95.2	80-120	1.56	20	
Xylene (p/m)	0.182	0.00227	"	0.227	ND	79.9	80-120	2.54	20	QM-05
Xylene (o)	0.0972	0.00114	"	0.114	ND	85.5	80-120	1.72	20	
Surrogate: 4-Bromofluorobenzene	*0.162*		"	*0.136*		*119*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.136*		*97.7*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1304 - TX 1005										
Blank (P2L1304-BLK1)				Prepared & Analyzed: 12/13/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*96.2*		*"*	*100*		*96.2*	*70-130*			
Surrogate: o-Terphenyl	*50.3*		*"*	*50.0*		*101*	*70-130*			
LCS (P2L1304-BS1)				Prepared & Analyzed: 12/13/22						
C6-C12	836	25.0	mg/kg	1000		83.6	75-125			
>C12-C28	881	25.0	"	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*57.8*		*"*	*50.0*		*116*	*70-130*			
LCS Dup (P2L1304-BSD1)				Prepared & Analyzed: 12/13/22						
C6-C12	833	25.0	mg/kg	1000		83.3	75-125	0.459	20	
>C12-C28	874	25.0	"	1000		87.4	75-125	0.784	20	
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*56.3*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (P2L1304-CCV1)				Prepared & Analyzed: 12/13/22						
C6-C12	485	25.0	mg/kg	500		97.0	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		*"*	*50.0*		*101*	*70-130*			
Calibration Check (P2L1304-CCV2)				Prepared: 12/13/22 Analyzed: 12/14/22						
C6-C12	477	25.0	mg/kg	500		95.4	85-115			
>C12-C28	535	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*55.0*		*"*	*50.0*		*110*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1304 - TX 1005										
Calibration Check (P2L1304-CCV3)				Prepared: 12/13/22 Analyzed: 12/14/22						
C6-C12	482	25.0	mg/kg	500		96.4	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*55.6*		*"*	*50.0*		*111*	*70-130*			
Duplicate (P2L1304-DUP1)	**Source: 2L09006-01**			Prepared: 12/13/22 Analyzed: 12/14/22						
C6-C12	17.8	26.0	mg/kg dry		16.0			10.5	20	
>C12-C28	1710	26.0	"		1750			2.39	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*104*		*105*	*70-130*			
Surrogate: o-Terphenyl	*57.6*		*"*	*52.1*		*111*	*70-130*			
Batch P2L1305 - TX 1005										
Blank (P2L1305-BLK1)				Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.6*		*"*	*100*		*86.6*	*70-130*			
Surrogate: o-Terphenyl	*46.5*		*"*	*50.0*		*92.9*	*70-130*			
LCS (P2L1305-BS1)				Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	928	25.0	mg/kg	1000		92.8	75-125			
>C12-C28	972	25.0	"	1000		97.2	75-125			
Surrogate: 1-Chlorooctane	*128*		*"*	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		*"*	*50.0*		*110*	*70-130*			
LCS Dup (P2L1305-BSD1)				Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	935	25.0	mg/kg	1000		93.5	75-125	0.685	20	
>C12-C28	974	25.0	"	1000		97.4	75-125	0.197	20	
Surrogate: 1-Chlorooctane	*127*		*"*	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*54.1*		*"*	*50.0*		*108*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1305 - TX 1005										
Calibration Check (P2L1305-CCV1)				Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	552	25.0	mg/kg	500		110	85-115			
>C12-C28	571	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*50.5*		*"*	*50.0*		*101*	*70-130*			
Calibration Check (P2L1305-CCV2)				Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	558	25.0	mg/kg	500		112	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*51.9*		*"*	*50.0*		*104*	*70-130*			
Matrix Spike (P2L1305-MS1)		**Source: 2L09013-08**		Prepared: 12/13/22 Analyzed: 12/15/22						
C6-C12	931	26.9	mg/kg dry	1080	12.9	85.4	75-125			
>C12-C28	1010	26.9	"	1080	18.4	92.1	75-125			
Surrogate: 1-Chlorooctane	*118*		*"*	*108*		*110*	*70-130*			
Surrogate: o-Terphenyl	*49.0*		*"*	*53.8*		*91.2*	*70-130*			
Matrix Spike Dup (P2L1305-MSD1)		**Source: 2L09013-08**		Prepared: 12/13/22 Analyzed: 12/16/22						
C6-C12	923	26.9	mg/kg dry	1080	12.9	84.6	75-125	0.840	20	
>C12-C28	995	26.9	"	1080	18.4	90.8	75-125	1.37	20	
Surrogate: 1-Chlorooctane	*118*		*"*	*108*		*110*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*53.8*		*88.6*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1301 - * DEFAULT PREP *** **										
Blank (P2L1301-BLK1)				Prepared & Analyzed: 12/13/22						
% Moisture	ND	0.1	%							
Blank (P2L1301-BLK2)				Prepared & Analyzed: 12/13/22						
% Moisture	ND	0.1	%							
Duplicate (P2L1301-DUP1)		**Source: 2L09010-10**		Prepared & Analyzed: 12/13/22						
% Moisture	11.0	0.1	%		12.0			8.70	20	
Duplicate (P2L1301-DUP2)		**Source: 2L09010-20**		Prepared & Analyzed: 12/13/22						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P2L1301-DUP3)		**Source: 2L09013-06**		Prepared & Analyzed: 12/13/22						
% Moisture	15.0	0.1	%		16.0			6.45	20	
Duplicate (P2L1301-DUP4)		**Source: 2L12004-04**		Prepared & Analyzed: 12/13/22						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Batch P2L1404 - * DEFAULT PREP *** **										
Blank (P2L1404-BLK1)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	ND	1.00	mg/kg							
LCS (P2L1404-BS1)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	20.5		mg/kg	20.0		102	90-110			
LCS Dup (P2L1404-BSD1)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	19.9		mg/kg	20.0		99.6	90-110	2.79	10	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1404 - * DEFAULT PREP *** **										
Calibration Blank (P2L1404-CCB1)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	0.0500		mg/kg							
Calibration Blank (P2L1404-CCB2)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	0.0530		mg/kg							
Calibration Check (P2L1404-CCV1)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	20.1		mg/kg	20.0		101	90-110			
Calibration Check (P2L1404-CCV2)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P2L1404-CCV3)				Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	21.1		mg/kg	20.0		105	90-110			
Matrix Spike (P2L1404-MS1)		**Source: 2L09010-01**		Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	280	1.03	mg/kg dry	258	64.0	83.8	80-120			
Matrix Spike (P2L1404-MS2)		**Source: 2L09010-12**		Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	5000	5.32	mg/kg dry	266	4770	87.9	80-120			
Matrix Spike Dup (P2L1404-MSD1)		**Source: 2L09010-01**		Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	281	1.03	mg/kg dry	258	64.0	84.0	80-120	0.243	20	
Matrix Spike Dup (P2L1404-MSD2)		**Source: 2L09010-12**		Prepared: 12/14/22 Analyzed: 12/15/22						
Chloride	5000	5.32	mg/kg dry	266	4770	89.9	80-120	0.103	20	
Batch P2L1405 - * DEFAULT PREP *** **										
Blank (P2L1405-BLK1)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	ND	1.00	mg/kg							

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1405 - * DEFAULT PREP *** **										
LCS (P2L1405-BS1)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	21.4		mg/kg	20.0		107	90-110			
LCS Dup (P2L1405-BSD1)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	20.7		mg/kg	20.0		104	90-110	3.21	10	
Calibration Blank (P2L1405-CCB1)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	0.0960		mg/kg							
Calibration Blank (P2L1405-CCB2)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	0.0740		mg/kg							
Calibration Check (P2L1405-CCV1)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	20.5		mg/kg	20.0		103	90-110			
Calibration Check (P2L1405-CCV2)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	21.2		mg/kg	20.0		106	90-110			
Calibration Check (P2L1405-CCV3)				Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	21.1		mg/kg	20.0		106	90-110			
Matrix Spike (P2L1405-MS1)		**Source: 2L09010-21**		Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	385	1.04	mg/kg dry	260	168	83.5	80-120			
Matrix Spike (P2L1405-MS2)		**Source: 2L09013-02**		Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	859	1.09	mg/kg dry	1360	685	12.8	80-120			QM-05
Matrix Spike Dup (P2L1405-MSD1)		**Source: 2L09010-21**		Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	385	1.04	mg/kg dry	260	168	83.3	80-120	0.119	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2L1405 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2L1405-MSD2)	**Source: 2L09013-02**			Prepared: 12/14/22 Analyzed: 12/16/22						
Chloride	789	1.09	mg/kg dry	1360	685	7.64	80-120	8.57	20	QM-05

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

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

Report Approved By: Brent Barron Date: 12/19/2022

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project:	Red Tanks 2nd Spill
P.O. Box 50685	Project Number:	22-0104-10
Midland TX, 79710	Project Manager:	Mark Larson

№ 1912

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 12/9/2022 PAGE 1 OF 3

PO#: LAB WORK ORDER#: 2209010

PROJECT LOCATION OR NAME: Red Tanks 2nd spill

LAI PROJECT #: 22-0104-10 COLLECTOR: JH & AB

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
S-18 1'	1	12/1–12/2	1350	S	1				X		X X X X X	X
S-18 3'	2		1352									
S-18 5'	3		1354									
S-18 10'	4		1356									
S-18 13'	5		1358									
S-17 1'	6		1336									
S-17 3'	7		1338									
S-17 5'	8		1340									
S-17 10'	9		1342									
S-17 13'	10		1344									
S-9 1'	11		1425									
S-9 3'	12		1427									
S-9 5'	13		1429									
S-9 10'	14		1432									
S-9 11'	15		1435									
TOTAL	15											

RELINQUISHED BY:(Signature) Daniel Gutierrez DATE/TIME 12/9/22 10:05 RECEIVED BY:(Signature) Trina Bledsoe

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -9.4 / -8.4 THERM#: CF1 L1
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

№ 1913

CHAIN-OF-CUSTOD

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

DATE: 12/9/2022 PAGE 2 OF 2

PO#: _____ LAB WORK ORDER#: 2409010

PROJECT LOCATION OR NAME: RED TANKS 2nd spill

LAI PROJECT #: ~~REL~~ 22-0104-10 COLLECTOR: ~~JH~~ / MB

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT / NM

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

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | 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 Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-6 1'	16	12/7/22	1445	S	1				X		X BTEX; X GASOLINE MOD 8015; X DIESEL - MOD 8015; X OIL - MOD 8015; X CHLORIDE	
S-6 3'	17		1446									
S-6 5'	18		1447									
S-6 10'	19		1448									
S-6 13'	20		1449									
S-3 1'	21		1500									
S-3 3'	22		1501									
S-3 5'	23		1502									
S-3 10'	24		1503									
S-3 13'	25		1504									
S-21 1'	26		1510									
S-21 3'	27		1511									
S-21 5'	28		1512									
S-21 10'	29		1513									

TOTAL 14

RELINQUISHED BY:(Signature) Daniel Rejmanek DATE/TIME 12/9/22 10:05 RECEIVED BY:(Signature) Olivia Bledsoe

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: ~~-9.4~~ -8.4 THERM#: CF-1 U
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Red Tanks 2nd Spill

Project Number: 22-0104-10

Location: New Mexico

Lab Order Number: 3D13001

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/24/23

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Red Tanks 2nd Spill
Project Number: 22-0104-10
Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-1 @ 4.1'	3D13001-01	Soil	04/12/23 12:00	04-13-2023 09:16
C-2 @ 4.1'	3D13001-02	Soil	04/12/23 12:05	04-13-2023 09:16
C-3 @ 4.1'	3D13001-03	Soil	04/12/23 12:10	04-13-2023 09:16
C-4 @ 4.1'	3D13001-04	Soil	04/12/23 12:15	04-13-2023 09:16
C-5 @ 4.1'	3D13001-05	Soil	04/12/23 12:20	04-13-2023 09:16
C-6 @ 4.1'	3D13001-06	Soil	04/12/23 12:25	04-13-2023 09:16
C-7 @ 4.1'	3D13001-07	Soil	04/12/23 12:30	04-13-2023 09:16
C-8 @ 4.1'	3D13001-08	Soil	04/12/23 12:35	04-13-2023 09:16
C-9 @ 4.1'	3D13001-09	Soil	04/12/23 12:40	04-13-2023 09:16
C-10 @ 4.1'	3D13001-10	Soil	04/12/23 12:45	04-13-2023 09:16
C-11 @ 4.1'	3D13001-11	Soil	04/12/23 12:50	04-13-2023 09:16
C-12 @ 4.1'	3D13001-12	Soil	04/12/23 12:55	04-13-2023 09:16
C-13 @ 4.1'	3D13001-13	Soil	04/12/23 13:00	04-13-2023 09:16
C-14 @ 4.1'	3D13001-14	Soil	04/12/23 13:05	04-13-2023 09:16
C-15 @ 4.1'	3D13001-15	Soil	04/12/23 13:10	04-13-2023 09:16
C-16 @ 4.1'	3D13001-16	Soil	04/12/23 13:15	04-13-2023 09:16
C-17 @ 4.1'	3D13001-17	Soil	04/12/23 13:20	04-13-2023 09:16
C-18 @ 4.1'	3D13001-18	Soil	04/12/23 13:25	04-13-2023 09:16
C-19 @ 0-4.1'	3D13001-19	Soil	04/12/23 13:30	04-13-2023 09:16
C-20 @ 0-4.1'	3D13001-20	Soil	04/12/23 13:35	04-13-2023 09:16
C-21 @ 4.1'	3D13001-21	Soil	04/12/23 13:40	04-13-2023 09:16
C-22 @ 4.1'	3D13001-22	Soil	04/12/23 13:45	04-13-2023 09:16
C-23 @ 4.1'	3D13001-23	Soil	04/12/23 13:50	04-13-2023 09:16
C-24 @ 4.1'	3D13001-24	Soil	04/12/23 13:55	04-13-2023 09:16
C-25 @ 4.1'	3D13001-25	Soil	04/12/23 14:00	04-13-2023 09:16
C-26 @ 4.1'	3D13001-26	Soil	04/12/23 14:05	04-13-2023 09:16
C-27 @ 4.1'	3D13001-27	Soil	04/12/23 14:10	04-13-2023 09:16
C-28 @ 4.1'	3D13001-28	Soil	04/12/23 14:15	04-13-2023 09:16
C-29 @ 4.1'	3D13001-29	Soil	04/12/23 14:20	04-13-2023 09:16
C-30 @ 4.1'	3D13001-30	Soil	04/12/23 14:25	04-13-2023 09:16
C-31 @ 4.1'	3D13001-31	Soil	04/12/23 14:30	04-13-2023 09:16
C-32 @ 4.1'	3D13001-32	Soil	04/12/23 14:45	04-13-2023 09:16
C-33 @ 4.1'	3D13001-33	Soil	04/12/23 14:50	04-13-2023 09:16
C-34 @ 4.1'	3D13001-34	Soil	04/12/23 14:55	04-13-2023 09:16

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-35 @ 4.1'	3D13001-35	Soil	04/12/23 15:00	04-13-2023 09:16
C-36 @ 4.1'	3D13001-36	Soil	04/12/23 15:05	04-13-2023 09:16
C-37 @ 4.1'	3D13001-37	Soil	04/12/23 15:10	04-13-2023 09:16
C-38 @ 4.1'	3D13001-38	Soil	04/12/23 15:20	04-13-2023 09:16
C-39 @ 4.1'	3D13001-39	Soil	04/12/23 15:25	04-13-2023 09:16
C-40 @ 4.1'	3D13001-40	Soil	04/12/23 15:30	04-13-2023 09:16
C-41 @ 4.1'	3D13001-41	Soil	04/12/23 15:35	04-13-2023 09:16
C-42 @ 4.1'	3D13001-42	Soil	04/12/23 15:40	04-13-2023 09:16
C-43 @ 4.1'	3D13001-43	Soil	04/12/23 15:45	04-13-2023 09:16
C-44 @ 4.1'	3D13001-44	Soil	04/12/23 15:50	04-13-2023 09:16
C-45 @ 4.1'	3D13001-45	Soil	04/12/23 15:55	04-13-2023 09:16
C-46 @ 0-4.1'	3D13001-46	Soil	04/12/23 16:00	04-13-2023 09:16
C-47 @ 0-4.1'	3D13001-47	Soil	04/12/23 16:05	04-13-2023 09:16
C-48 @ 0-4.1'	3D13001-48	Soil	04/12/23 16:10	04-13-2023 09:16
C-49 @ 0-4.1'	3D13001-49	Soil	04/12/23 16:15	04-13-2023 09:16
C-50 @ 1'	3D13001-50	Soil	04/12/23 16:20	04-13-2023 09:16
C-51 @ 1'	3D13001-51	Soil	04/12/23 16:25	04-13-2023 09:16
C-52 @ 1'	3D13001-52	Soil	04/12/23 16:30	04-13-2023 09:16
C-53 @ 1'	3D13001-53	Soil	04/12/23 16:35	04-13-2023 09:16
C-54 @ 1'	3D13001-54	Soil	04/12/23 16:40	04-13-2023 09:16
C-55 @ 1'	3D13001-55	Soil	04/12/23 16:45	04-13-2023 09:16
C-56 @ 1'	3D13001-56	Soil	04/12/23 16:50	04-13-2023 09:16
C-57 @ 1'	3D13001-57	Soil	04/12/23 16:55	04-13-2023 09:16
C-58 @ 1'	3D13001-58	Soil	04/12/23 17:00	04-13-2023 09:16
C-59 @ 1'	3D13001-59	Soil	04/12/23 17:05	04-13-2023 09:16
C-60 @ 0-1'	3D13001-60	Soil	04/12/23 17:10	04-13-2023 09:16
C-61 @ 0-1'	3D13001-61	Soil	04/12/23 17:15	04-13-2023 09:16

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-1 @ 4.1'

3D13001-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 17:15	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 17:15	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 17:15	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 17:15	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 17:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.5 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 17:15*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 17:15*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 00:45	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 00:45	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 00:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.5 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 00:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.9 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 00:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 00:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**324**	1.03	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 08:37	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-2 @ 4.1'

3D13001-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:16	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:16	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:16	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:16	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.2 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:11	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:11	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:11	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.3 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 01:11*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.6 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 01:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 01:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**412**	1.02	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 09:20	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-3 @ 4.1'

3D13001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:37	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:37	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:37	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:37	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:37*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:37	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:37	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 01:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.2 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 01:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.1 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 01:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 01:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1380**	1.02	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 10:03	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-4 @ 4.1'

3D13001-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:57	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:57	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:57	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:57	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 18:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.8 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 18:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:01	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:01	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:01	TPH 8015M	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:01*	*TPH 8015M*	
Surrogate: o-Terphenyl		*115 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:01*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 02:01	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1850**	1.03	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 10:17	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-5 @ 4.1'

3D13001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:18	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:18	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:18	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:18	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*83.9 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:18*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:18*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:26	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:26	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:26	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.7 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:26*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.7 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:26*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 02:26	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1080**	1.00	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 10:32	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-6 @ 4.1'

3D13001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:38	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:38	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:38	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:38	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*85.4 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:52	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:52	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 02:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.8 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 02:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 02:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2250**	10.0	mg/kg dry	10	P3D1416	04/17/23 09:38	04/21/23 20:05	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-7 @ 4.1'

3D13001-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:58	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:58	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:58	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:58	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 19:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:58*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 19:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:18	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:18	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:18	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.5 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 03:18*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.8 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 03:18*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 03:18	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1480**	1.01	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 11:15	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-8 @ 4.1'

3D13001-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.9 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:43	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:43	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 03:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.7 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 03:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 03:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 03:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**299**	1.01	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 11:29	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-9 @ 4.1'

3D13001-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:39	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*86.2 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 04:08	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 04:08	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1403	04/14/23 09:50	04/17/23 04:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.5 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 04:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.7 %*	*70-130*		*P3D1403*	*04/14/23 09:50*	*04/17/23 04:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 09:50	04/17/23 04:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**630**	1.00	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 11:44	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-10 @ 4.1'

3D13001-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:59	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:59	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:59	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:59	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 20:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 20:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:22	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:22	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 06:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.6 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 06:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 06:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1840**	1.01	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 11:58	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-11 @ 4.1'

3D13001-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 21:20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 21:20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 21:20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 21:20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3D1401	04/14/23 10:11	04/14/23 21:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.1 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 21:20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3D1401*	*04/14/23 10:11*	*04/14/23 21:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:45	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:45	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 06:45	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 06:45*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.5 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 06:45*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 06:45	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**673**	1.10	mg/kg dry	1	P3D1416	04/17/23 09:38	04/21/23 12:12	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-12 @ 4.1'

3D13001-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 13:41	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 13:41	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 13:41	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 13:41	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 13:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*80.9 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 13:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.3 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 13:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:07	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:07	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.7 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.9 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 07:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1100**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 13:39	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-13 @ 4.1'

3D13001-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:01	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:01	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:01	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:01	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.6 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:01*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:29	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:29	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.3 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*86.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 07:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**223**	1.02	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 14:22	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-14 @ 4.1'

3D13001-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:22	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:22	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:22	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:22	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:52	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:52	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 07:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.5 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 07:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 07:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**903**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 14:36	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-15 @ 4.1'

3D13001-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:43	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:43	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:43	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:43	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 14:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.6 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 14:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:07	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:07	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.2 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.1 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 12:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1060**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 14:50	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-16 @ 4.1'

3D13001-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:03	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:03*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:29	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:29	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:29	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.0 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:29*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.5 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 12:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**517**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 15:04	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-17 @ 4.1'

3D13001-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:24	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:24	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:24	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:24	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:24*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.1 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:51	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:51	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 12:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.9 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.9 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 12:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 12:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**359**	1.03	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 15:19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-18 @ 4.1'

3D13001-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:44	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 15:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:44*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.2 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 15:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:13	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:13	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.0 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 13:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*90.1 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 13:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 13:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**361**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 15:33	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-19 @ 0-4.1'

3D13001-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:05	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.7 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.5 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:36	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:36	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 13:36	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.7 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 13:36*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.2 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 13:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 13:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**61.3**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 15:47	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-20 @ 0-4.1'

3D13001-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:25	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:25	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:25	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:25	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 14:43	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 14:43	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 14:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.1 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 14:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 14:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 14:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**93.6**	1.02	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 16:02	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-21 @ 4.1'

3D13001-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:46	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:46	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:46	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:46	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 16:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.3 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:46*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 16:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:05	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:05	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*81.4 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 15:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.3 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 15:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 15:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**455**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 16:16	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-22 @ 4.1'

3D13001-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 17:48	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 17:48	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 17:48	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 17:48	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 17:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 17:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 17:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:27	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:27	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 15:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.7 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 15:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 15:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 15:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**220**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 16:59	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-23 @ 4.1'

3D13001-23 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:08	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:08	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:08	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:08	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.9 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.8 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:13	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:13	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 16:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**535**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 17:42	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-24 @ 4.1'

3D13001-24 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:29	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:29	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:29	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:29	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.1 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:29*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*83.8 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:35	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:35	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.2 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 16:35	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**926**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 17:56	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-25 @ 4.1'

3D13001-25 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:50	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:50	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:50	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:50	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 18:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:50*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 18:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:58	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:58	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 16:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.0 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 16:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 16:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.4**	1.00	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 18:10	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-26 @ 4.1'

3D13001-26 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:10	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:10	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:10	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:10	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:10*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*84.2 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:10*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:20	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.0 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 17:20*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.4 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 17:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 17:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**182**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 18:24	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-27 @ 4.1'

3D13001-27 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:31	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:31	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:31	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:31	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*82.3 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:43	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:43	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 17:43	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.6 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 17:43*	*TPH 8015M*	
Surrogate: o-Terphenyl		*84.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 17:43*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 17:43	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1970**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 18:39	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-28 @ 4.1'

3D13001-28 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:51	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:51	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:51	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:51	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 19:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 19:51*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:05	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:05	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:05	TPH 8015M	
Surrogate: 1-Chlorooctane		*75.5 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 18:05*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.8 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 18:05*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 18:05	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1430**	1.02	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 18:53	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-29 @ 4.1'

3D13001-29 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:12	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:12	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:12	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:12	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:12*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:12*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:28	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:28	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1409	04/14/23 14:00	04/17/23 18:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.3 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 18:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.4 %*	*70-130*		*P3D1409*	*04/14/23 14:00*	*04/17/23 18:28*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 14:00	04/17/23 18:28	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4010**	5.05	mg/kg dry	5	P3D1904	04/20/23 12:21	04/21/23 19:07	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-30 @ 4.1'

3D13001-30 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:32	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:32	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:32	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:32	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*81.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:32*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:33	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:33	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.0 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 07:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 07:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 07:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1460**	1.01	mg/kg dry	1	P3D1904	04/20/23 12:21	04/21/23 19:22	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-31 @ 4.1'

3D13001-31 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:53	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:53	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:53	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:53	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1404	04/14/23 10:17	04/16/23 20:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P3D1404*	*04/14/23 10:17*	*04/16/23 20:53*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:58	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:58	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 07:58	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.3 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 07:58*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.8 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 07:58*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 07:58	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2830**	5.05	mg/kg dry	5	P3D1904	04/20/23 12:21	04/21/23 19:36	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-32 @ 4.1'

3D13001-32 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 08:52	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 08:52	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 08:52	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 08:52	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 08:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 08:52*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*93.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 08:52*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:23	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:23	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:23	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 08:23*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 08:23*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 08:23	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3390**	5.10	mg/kg dry	5	P3D2106	04/20/23 10:00	04/21/23 21:31	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-33 @ 4.1'

3D13001-33 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:13	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:13	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:13	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:13	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 09:13*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.5 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 09:13*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:49	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:49	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 08:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.7 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 08:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.4 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 08:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 08:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2150**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 22:13	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-34 @ 4.1'

3D13001-34 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:34	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:34	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:34	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:34	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 09:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 09:34*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 09:34*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:13	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:13	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.7 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 09:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.7 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 09:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 09:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**678**	1.00	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 22:28	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-35 @ 4.1'

3D13001-35 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:23	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:23	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:23	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:23	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 14:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 14:23*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:38	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:38	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 09:38	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.2 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 09:38*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.3 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 09:38*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 09:38	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1170**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 22:42	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-36 @ 4.1'

3D13001-36 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:43	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:43	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:43	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:43	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 14:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.1 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 14:43*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 14:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 10:02	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 10:02	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 10:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.0 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 10:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.0 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 10:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 10:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**685**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 22:56	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-37 @ 4.1'

3D13001-37 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:04	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:04	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:04	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:04	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.1 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:25	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:25	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 11:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 11:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 11:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**873**	1.03	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 23:11	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-38 @ 4.1'

3D13001-38 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:25	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:25	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:25	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:25	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:49	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:49	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 11:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.5 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 11:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 11:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 11:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4970**	5.32	mg/kg dry	5	P3D2106	04/20/23 10:00	04/21/23 23:25	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-39 @ 4.1'

3D13001-39 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:46	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:46	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:46	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:46	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 15:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:46*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 15:46*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 12:13	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 12:13	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 12:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 12:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 12:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 12:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3530**	5.21	mg/kg dry	5	P3D2106	04/20/23 10:00	04/21/23 23:39	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-40 @ 4.1'

3D13001-40 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 16:06	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 16:06	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 16:06	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 16:06	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1406	04/14/23 10:45	04/17/23 16:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 16:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P3D1406*	*04/14/23 10:45*	*04/17/23 16:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:25	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:25	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.3 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 13:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 13:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 13:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1610**	1.02	mg/kg dry	1	P3D2106	04/20/23 10:00	04/21/23 23:54	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-41 @ 4.1'

3D13001-41 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:36	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:36	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:36	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:36	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 01:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 01:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:49	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:49	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 13:49	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 13:49*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.5 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 13:49*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 13:49	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3240**	10.4	mg/kg dry	10	P3D2106	04/20/23 10:00	04/24/23 11:48	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-42 @ 4.1'

3D13001-42 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:56	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:56	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:56	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:56	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 01:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 01:56*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 01:56*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.1	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:13	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:13	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:13	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 14:13*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.5 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 14:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 14:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9580**	11.2	mg/kg dry	10	P3D2106	04/20/23 10:00	04/22/23 00:51	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-43 @ 4.1'

3D13001-43 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:17	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:37	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:37	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 14:37	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.0 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 14:37*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.9 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 14:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 14:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2950**	5.05	mg/kg dry	5	P3D2106	04/20/23 10:00	04/22/23 01:34	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-44 @ 4.1'

3D13001-44 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:38	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:38	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:38	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:38	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.9 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:38*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:02	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:02	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.1 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 15:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3740**	5.26	mg/kg dry	5	P3D2106	04/20/23 10:00	04/22/23 01:49	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-45 @ 4.1'

3D13001-45 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:59	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:59	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:59	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:59	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1705	04/17/23 14:26	04/18/23 02:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3D1705*	*04/17/23 14:26*	*04/18/23 02:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:27	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:27	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*72.1 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*91.0 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 15:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**722**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 02:03	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-46 @ 0-4.1'

3D13001-46 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:36	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:36	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:36	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:36	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 20:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.6 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 20:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:52	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:52	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 15:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.7 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 15:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 15:52	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**148**	1.04	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 02:17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-47 @ 0-4.1'

3D13001-47 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:57	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:57	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:57	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:57	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 20:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 20:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*83.7 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 20:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:17	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:17	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.4 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 16:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 16:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 16:17	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**232**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 02:32	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-48 @ 0-4.1'

3D13001-48 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:17	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:42	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:42	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 16:42	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.6 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 16:42*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 16:42*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 16:42	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**324**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 02:46	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-49 @ 0-4.1'

3D13001-49 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:38*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 17:06	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 17:06	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1412	04/14/23 15:30	04/17/23 17:06	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 17:06*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P3D1412*	*04/14/23 15:30*	*04/17/23 17:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/14/23 15:30	04/17/23 17:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**151**	1.03	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 03:01	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-50 @ 1'

3D13001-50 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:58	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:58	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:58	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:58	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 21:58	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*100 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:58*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 21:58*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 17:59	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 17:59	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 17:59	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 17:59*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 17:59*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 17:59	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**303**	1.00	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 03:15	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-51 @ 1'

3D13001-51 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:00	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:00	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:00	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:00	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.5 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:25	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:25	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:25	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.9 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 18:25*	*TPH 8015M*	
Surrogate: o-Terphenyl		*100 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 18:25*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 18:25	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**32.0**	1.01	mg/kg dry	1	P3D2106	04/20/23 10:00	04/22/23 03:29	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-52 @ 1'

3D13001-52 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:21	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.0 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:51	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:51	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 18:51	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.6 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 18:51*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 18:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 18:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**70.9**	1.01	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 17:42	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-53 @ 1'

3D13001-53 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:41	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:41	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:41	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:41	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D1912	04/19/23 15:48	04/19/23 23:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*87.3 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.5 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/19/23 23:41*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:16	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:16	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:16	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 19:16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 19:16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 19:16	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.8**	1.00	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 18:43	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-54 @ 1'

3D13001-54 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:02	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:02	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:02	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:02	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:02*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:41	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:41	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 19:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 19:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 19:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 19:41	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**104**	1.01	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 19:04	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-55 @ 1'

3D13001-55 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:22	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:22	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:22	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:22	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.8 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:22*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:08	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:08	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:08	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.7 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:08*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:08*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 20:08	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**181**	1.04	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 19:24	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-56 @ 1'

3D13001-56 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:43	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:43	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:43	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:43	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 00:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:43*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*87.3 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 00:43*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:33	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:33	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:33*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 20:33	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.6**	1.01	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 19:45	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-57 @ 1'

3D13001-57 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:04	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:04	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:04	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:04	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*86.7 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:04*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:04*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:57	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:57	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 20:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.3 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 20:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 20:57	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**23.6**	1.03	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 20:05	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-58 @ 1'

3D13001-58 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:24	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:24	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:24	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:24	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:24*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:24*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:22	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:22	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:22	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.7 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 21:22*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 21:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 21:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**57.8**	1.01	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 20:26	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-59 @ 1'

3D13001-59 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:45	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:45	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:45	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:45	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 01:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.7 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 01:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:47	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:47	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 21:47	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.3 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 21:47*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 21:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 21:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**13.6**	1.02	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 20:46	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-60 @ 0-1'

3D13001-60 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 02:05	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 02:05	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 02:05	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 02:05	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3D1912	04/19/23 15:48	04/20/23 02:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*87.8 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 02:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*80-120*		*P3D1912*	*04/19/23 15:48*	*04/20/23 02:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:02	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:02	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.2 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 23:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 23:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 23:02	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**47.7**	1.09	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 21:07	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

C-61 @ 0-1'

3D13001-61 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00100	mg/kg dry	1	P3D2003	04/20/23 13:11	04/20/23 16:25	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P3D2003	04/20/23 13:11	04/20/23 16:25	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P3D2003	04/20/23 13:11	04/20/23 16:25	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P3D2003	04/20/23 13:11	04/20/23 16:25	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P3D2003	04/20/23 13:11	04/20/23 16:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3D2003*	*04/20/23 13:11*	*04/20/23 16:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*80-120*		*P3D2003*	*04/20/23 13:11*	*04/20/23 16:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:27	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:27	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P3D1810	04/18/23 14:00	04/20/23 23:27	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.2 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 23:27*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.8 %*	*70-130*		*P3D1810*	*04/18/23 14:00*	*04/20/23 23:27*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	04/18/23 14:00	04/20/23 23:27	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**104**	1.00	mg/kg dry	1	P3D2107	04/20/23 10:00	04/23/23 21:27	EPA 300.0	
% Moisture	ND	0.1	%	1	P3D1908	04/19/23 12:40	04/19/23 12:46	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1401 - * DEFAULT PREP *** **										
Blank (P3D1401-BLK1)				Prepared & Analyzed: 04/14/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0951*		"	*0.120*		*79.2*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.5*	*80-120*			
LCS (P3D1401-BS1)				Prepared & Analyzed: 04/14/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.0956	0.00100	"	0.100		95.6	80-120			
Ethylbenzene	0.0926	0.00100	"	0.100		92.6	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*85.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.3*	*80-120*			
LCS Dup (P3D1401-BSD1)				Prepared & Analyzed: 04/14/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	1.77	20	
Toluene	0.0973	0.00100	"	0.100		97.3	80-120	1.84	20	
Ethylbenzene	0.0954	0.00100	"	0.100		95.4	80-120	3.00	20	
Xylene (p/m)	0.176	0.00200	"	0.200		87.8	80-120	2.33	20	
Xylene (o)	0.0939	0.00100	"	0.100		93.9	80-120	1.37	20	
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*90.0*	*80-120*			
Calibration Blank (P3D1401-CCB1)				Prepared & Analyzed: 04/14/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.100		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.9*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1401 - * DEFAULT PREP *** **										
Calibration Blank (P3D1401-CCB2)				Prepared & Analyzed: 04/14/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.150		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0990*		"	*0.120*		*82.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*80-120*			
Calibration Check (P3D1401-CCV1)				Prepared & Analyzed: 04/14/23						
Benzene	0.0983	0.00100	mg/kg	0.100		98.3	80-120			
Toluene	0.0853	0.00100	"	0.100		85.3	80-120			
Ethylbenzene	0.0804	0.00100	"	0.100		80.4	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.4	80-120			
Xylene (o)	0.0832	0.00100	"	0.100		83.2	80-120			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.1*	*75-125*			
Calibration Check (P3D1401-CCV2)				Prepared & Analyzed: 04/14/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0916	0.00100	"	0.100		91.6	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.2	80-120			
Xylene (o)	0.0977	0.00100	"	0.100		97.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0962*		"	*0.120*		*80.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*75-125*			
Calibration Check (P3D1401-CCV3)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0877	0.00100	"	0.100		87.7	80-120			
Ethylbenzene	0.0805	0.00100	"	0.100		80.5	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0888	0.00100	"	0.100		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0966*		"	*0.120*		*80.5*	*75-125*			

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1401 - * DEFAULT PREP *** **										
Matrix Spike (P3D1401-MS1)	**Source: 3D13001-01**			Prepared & Analyzed: 04/14/23						
Benzene	0.0855	0.00103	mg/kg dry	0.103	ND	82.9	80-120			
Toluene	0.0758	0.00103	"	0.103	ND	73.5	80-120			QM-05
Ethylbenzene	0.0713	0.00103	"	0.103	ND	69.2	80-120			QM-05
Xylene (p/m)	0.132	0.00206	"	0.206	ND	64.1	80-120			QM-05
Xylene (o)	0.0708	0.00103	"	0.103	ND	68.7	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.124*		*87.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		"	*0.124*		*100*	*80-120*			
Matrix Spike Dup (P3D1401-MSD1)	**Source: 3D13001-01**			Prepared & Analyzed: 04/14/23						
Benzene	0.0985	0.00103	mg/kg dry	0.103	ND	95.5	80-120	14.1	20	
Toluene	0.0908	0.00103	"	0.103	ND	88.1	80-120	18.0	20	
Ethylbenzene	0.0857	0.00103	"	0.103	ND	83.1	80-120	18.3	20	
Xylene (p/m)	0.158	0.00206	"	0.206	ND	76.4	80-120	17.5	20	QM-05
Xylene (o)	0.0836	0.00103	"	0.103	ND	81.1	80-120	16.6	20	
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.124*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.124*		*92.3*	*80-120*			
Batch P3D1404 - * DEFAULT PREP *** **										
Blank (P3D1404-BLK1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*92.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0877*		"	*0.120*		*73.1*	*80-120*			*S-GC*

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1404 - * DEFAULT PREP *** **										
LCS (P3D1404-BS1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	0.0968	0.00100	mg/kg	0.100		96.8	80-120			
Toluene	0.0820	0.00100	"	0.100		82.0	80-120			
Ethylbenzene	0.0807	0.00100	"	0.100		80.7	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.5	80-120			
Xylene (o)	0.0816	0.00100	"	0.100		81.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0952*		"	*0.120*		*79.4*	*80-120*			*S-GC*
LCS Dup (P3D1404-BSD1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	0.0917	0.00100	mg/kg	0.100		91.7	80-120	5.50	20	
Toluene	0.0826	0.00100	"	0.100		82.6	80-120	0.778	20	
Ethylbenzene	0.0808	0.00100	"	0.100		80.8	80-120	0.124	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.4	80-120	1.26	20	
Xylene (o)	0.0828	0.00100	"	0.100		82.8	80-120	1.52	20	
Surrogate: 4-Bromofluorobenzene	*0.0974*		"	*0.120*		*81.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Calibration Blank (P3D1404-CCB1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0890*		"	*0.120*		*74.1*	*80-120*			*S-GC*
Calibration Blank (P3D1404-CCB2)				Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0911*		"	*0.120*		*75.9*	*80-120*			*S-GC*

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1404 - * DEFAULT PREP *** **										
Calibration Check (P3D1404-CCV1)				Prepared: 04/14/23 Analyzed: 04/15/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0877	0.00100	"	0.100		87.7	80-120			
Ethylbenzene	0.0805	0.00100	"	0.100		80.5	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0888	0.00100	"	0.100		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0966*		"	*0.120*		*80.5*	*75-125*			
Calibration Check (P3D1404-CCV2)				Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.112	0.00100	mg/kg	0.100		112	80-120			
Toluene	0.0915	0.00100	"	0.100		91.5	80-120			
Ethylbenzene	0.0853	0.00100	"	0.100		85.3	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.4	80-120			
Xylene (o)	0.0892	0.00100	"	0.100		89.2	80-120			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.7*	*75-125*			
Calibration Check (P3D1404-CCV3)				Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0934	0.00100	"	0.100		93.4	80-120			
Ethylbenzene	0.0843	0.00100	"	0.100		84.3	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0897	0.00100	"	0.100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Matrix Spike (P3D1404-MS1)		**Source: 3D13001-12**		Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.0783	0.00101	mg/kg dry	0.101	ND	77.5	80-120			QM-05
Toluene	0.0330	0.00101	"	0.101	ND	32.7	80-120			QM-05
Ethylbenzene	0.0638	0.00101	"	0.101	0.000657	62.6	80-120			QM-05
Xylene (p/m)	0.00191	0.00202	"	0.202	ND	0.945	80-120			QM-05
Xylene (o)	0.0674	0.00101	"	0.101	ND	66.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.121*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.121*		*94.2*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1404 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D1404-MSD1)	**Source: 3D13001-12**			Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.0803	0.00101	mg/kg dry	0.101	ND	79.5	80-120	2.57	20	QM-05
Toluene	0.0259	0.00101	"	0.101	ND	25.6	80-120	24.4	20	QM-05
Ethylbenzene	0.0598	0.00101	"	0.101	0.000657	58.5	80-120	6.64	20	QM-05
Xylene (p/m)	0.0469	0.00202	"	0.202	ND	23.2	80-120	184	20	QM-05
Xylene (o)	0.0665	0.00101	"	0.101	ND	65.8	80-120	1.31	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.121*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.121*		*93.7*	*80-120*			
Batch P3D1406 - * DEFAULT PREP *** **										
Blank (P3D1406-BLK1)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.0*	*80-120*			
LCS (P3D1406-BS1)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.0956	0.00100	mg/kg	0.100		95.6	80-120			
Toluene	0.0868	0.00100	"	0.100		86.8	80-120			
Ethylbenzene	0.0833	0.00100	"	0.100		83.3	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.5	80-120			
Xylene (o)	0.0866	0.00100	"	0.100		86.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*97.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1406 - * DEFAULT PREP *** **										
LCS Dup (P3D1406-BSD1)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.0947	0.00100	mg/kg	0.100		94.7	80-120	0.894	20	
Toluene	0.0890	0.00100	"	0.100		89.0	80-120	2.43	20	
Ethylbenzene	0.0846	0.00100	"	0.100		84.6	80-120	1.55	20	
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120	0.591	20	
Xylene (o)	0.0845	0.00100	"	0.100		84.5	80-120	2.50	20	
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.8*	*80-120*			
Calibration Blank (P3D1406-CCB1)				Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*83.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.3*	*80-120*			
Calibration Blank (P3D1406-CCB2)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0899*		"	*0.120*		*74.9*	*80-120*			*S-GC*
Calibration Check (P3D1406-CCV1)				Prepared: 04/14/23 Analyzed: 04/16/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0934	0.00100	"	0.100		93.4	80-120			
Ethylbenzene	0.0843	0.00100	"	0.100		84.3	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0897	0.00100	"	0.100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.111*		"	*0.120*		*92.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1406 - * DEFAULT PREP *** **										
Calibration Check (P3D1406-CCV2)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.0877	0.00100	mg/kg	0.100		87.7	80-120			
Toluene	0.0804	0.00100	"	0.100		80.4	80-120			
Ethylbenzene	0.0837	0.00100	"	0.100		83.7	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.6	80-120			
Xylene (o)	0.0811	0.00100	"	0.100		81.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.120*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.1*	*75-125*			
Calibration Check (P3D1406-CCV3)				Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0831	0.00100	"	0.100		83.1	80-120			
Ethylbenzene	0.0812	0.00100	"	0.100		81.2	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		80.8	80-120			
Xylene (o)	0.0820	0.00100	"	0.100		82.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0982*		"	*0.120*		*81.8*	*75-125*			
Matrix Spike (P3D1406-MS1)		**Source: 3D13001-32**		Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.0828	0.00102	mg/kg dry	0.102	ND	81.2	80-120			
Toluene	0.0176	0.00102	"	0.102	ND	17.2	80-120			QM-05
Ethylbenzene	0.0651	0.00102	"	0.102	ND	63.8	80-120			QM-05
Xylene (p/m)	0.0510	0.00204	"	0.204	ND	25.0	80-120			QM-05
Xylene (o)	0.0660	0.00102	"	0.102	ND	64.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.124*		"	*0.122*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.122*		*95.8*	*80-120*			
Matrix Spike Dup (P3D1406-MSD1)		**Source: 3D13001-32**		Prepared: 04/14/23 Analyzed: 04/17/23						
Benzene	0.0892	0.00102	mg/kg dry	0.102	ND	87.4	80-120	7.45	20	
Toluene	0.0180	0.00102	"	0.102	ND	17.6	80-120	2.18	20	QM-05
Ethylbenzene	0.0653	0.00102	"	0.102	ND	64.0	80-120	0.298	20	QM-05
Xylene (p/m)	0.0512	0.00204	"	0.204	ND	25.1	80-120	0.299	20	QM-05
Xylene (o)	0.0631	0.00102	"	0.102	ND	61.8	80-120	4.51	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.122*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.122*		*85.8*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1705 - * DEFAULT PREP *** **										
Blank (P3D1705-BLK1)				Prepared & Analyzed: 04/17/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0974*		"	*0.120*		*81.1*	*80-120*			
LCS (P3D1705-BS1)				Prepared & Analyzed: 04/17/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0968	0.00100	"	0.100		96.8	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		88.1	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.5*	*80-120*			
LCS Dup (P3D1705-BSD1)				Prepared & Analyzed: 04/17/23						
Benzene	0.0878	0.00100	mg/kg	0.100		87.8	80-120	16.0	20	
Toluene	0.0807	0.00100	"	0.100		80.7	80-120	18.2	20	
Ethylbenzene	0.0805	0.00100	"	0.100		80.5	80-120	16.7	20	
Xylene (p/m)	0.161	0.00200	"	0.200		80.3	80-120	9.21	20	
Xylene (o)	0.0804	0.00100	"	0.100		80.4	80-120	18.1	20	
Surrogate: 4-Bromofluorobenzene	*0.0994*		"	*0.120*		*82.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.7*	*80-120*			
Calibration Blank (P3D1705-CCB1)				Prepared & Analyzed: 04/17/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0984*		"	*0.120*		*82.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1705 - * DEFAULT PREP *** **										
Calibration Blank (P3D1705-CCB2)				Prepared & Analyzed: 04/17/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.7*	*80-120*			
Calibration Blank (P3D1705-CCB3)				Prepared: 04/17/23 Analyzed: 04/19/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0967*		"	*0.120*		*80.6*	*80-120*			
Calibration Check (P3D1705-CCV1)				Prepared & Analyzed: 04/17/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0927	0.00100	"	0.100		92.7	80-120			
Ethylbenzene	0.0836	0.00100	"	0.100		83.6	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		82.0	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.0*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*75-125*			
Calibration Check (P3D1705-CCV2)				Prepared & Analyzed: 04/17/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.0920	0.00100	"	0.100		92.0	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*75-125*			

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1705 - * DEFAULT PREP *** **										
Calibration Check (P3D1705-CCV3)				Prepared: 04/17/23 Analyzed: 04/19/23						
Benzene	0.0859	0.00100	mg/kg	0.100		85.9	80-120			
Toluene	0.0801	0.00100	"	0.100		80.1	80-120			
Ethylbenzene	0.0848	0.00100	"	0.100		84.8	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		84.2	80-120			
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*93.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Matrix Spike (P3D1705-MS1)		**Source: 3D17004-01**		Prepared: 04/17/23 Analyzed: 04/19/23						
Benzene	0.0429	0.00101	mg/kg dry	0.101	ND	42.5	80-120			QM-05
Toluene	0.0169	0.00101	"	0.101	ND	16.8	80-120			QM-05
Ethylbenzene	0.0119	0.00101	"	0.101	ND	11.8	80-120			QM-05
Xylene (p/m)	0.00555	0.00202	"	0.202	0.00247	1.52	80-120			QM-05
Xylene (o)	0.0112	0.00101	"	0.101	ND	11.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.121*		*87.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0885*		"	*0.121*		*73.0*	*80-120*			*S-GC*
Matrix Spike Dup (P3D1705-MSD1)		**Source: 3D17004-01**		Prepared: 04/17/23 Analyzed: 04/19/23						
Benzene	0.0604	0.00101	mg/kg dry	0.101	ND	59.8	80-120	33.9	20	QM-05
Toluene	0.0193	0.00101	"	0.101	ND	19.1	80-120	12.8	20	QM-05
Ethylbenzene	0.0118	0.00101	"	0.101	ND	11.7	80-120	0.255	20	QM-05
Xylene (p/m)	0.00929	0.00202	"	0.202	0.00247	3.38	80-120	75.8	20	QM-05
Xylene (o)	0.0169	0.00101	"	0.101	ND	16.7	80-120	40.2	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.0899*		"	*0.121*		*74.2*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.121*		*92.8*	*80-120*			
Batch P3D1912 - * DEFAULT PREP *** **										
Blank (P3D1912-BLK1)				Prepared & Analyzed: 04/19/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0962*		"	*0.120*		*80.2*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1912 - * DEFAULT PREP *** **										
LCS (P3D1912-BS1)				Prepared & Analyzed: 04/19/23						
Benzene	0.0917	0.00100	mg/kg	0.100		91.7	80-120			
Toluene	0.0804	0.00100	"	0.100		80.4	80-120			
Ethylbenzene	0.0808	0.00100	"	0.100		80.8	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.3	80-120			
Xylene (o)	0.0822	0.00100	"	0.100		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
LCS Dup (P3D1912-BSD1)				Prepared & Analyzed: 04/19/23						
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120	13.9	20	
Toluene	0.0952	0.00100	"	0.100		95.2	80-120	16.9	20	
Ethylbenzene	0.0909	0.00100	"	0.100		90.9	80-120	11.8	20	
Xylene (p/m)	0.169	0.00200	"	0.200		84.3	80-120	3.62	20	
Xylene (o)	0.0905	0.00100	"	0.100		90.5	80-120	9.64	20	
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*86.1*	*80-120*			
Calibration Blank (P3D1912-CCB1)				Prepared & Analyzed: 04/19/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0968*		"	*0.120*		*80.7*	*80-120*			
Calibration Blank (P3D1912-CCB2)				Prepared & Analyzed: 04/19/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*93.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.0891*		"	*0.120*		*74.2*	*80-120*			

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Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1912 - * DEFAULT PREP *** **										
Calibration Blank (P3D1912-CCB3)				Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*80-120*			
Calibration Check (P3D1912-CCV1)				Prepared & Analyzed: 04/19/23						
Benzene	0.0980	0.00100	mg/kg	0.100		98.0	80-120			
Toluene	0.0833	0.00100	"	0.100		83.3	80-120			
Ethylbenzene	0.0802	0.00100	"	0.100		80.2	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.0	80-120			
Xylene (o)	0.0810	0.00100	"	0.100		81.0	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0959*		"	*0.120*		*80.0*	*75-125*			
Calibration Check (P3D1912-CCV2)				Prepared & Analyzed: 04/19/23						
Benzene	0.110	0.00100	mg/kg	0.100		110	80-120			
Toluene	0.0992	0.00100	"	0.100		99.2	80-120			
Ethylbenzene	0.0890	0.00100	"	0.100		89.0	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.0	80-120			
Xylene (o)	0.0957	0.00100	"	0.100		95.7	80-120			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*100*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.106*		"	*0.120*		*88.6*	*75-125*			
Calibration Check (P3D1912-CCV3)				Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120			
Xylene (o)	0.0967	0.00100	"	0.100		96.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.1*	*75-125*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1912 - * DEFAULT PREP *** **										
Matrix Spike (P3D1912-MS1)	**Source: 3D19007-01**			Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.0914	0.00111	mg/kg dry	0.111	ND	82.3	80-120			
Toluene	0.0837	0.00111	"	0.111	ND	75.3	80-120			QM-05
Ethylbenzene	0.0795	0.00111	"	0.111	ND	71.5	80-120			QM-05
Xylene (p/m)	0.145	0.00222	"	0.222	ND	65.2	80-120			QM-05
Xylene (o)	0.0759	0.00111	"	0.111	ND	68.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.133*		*94.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.133*		*101*	*80-120*			
Matrix Spike Dup (P3D1912-MSD1)	**Source: 3D19007-01**			Prepared: 04/19/23 Analyzed: 04/20/23						
Benzene	0.0894	0.00111	mg/kg dry	0.111	ND	80.5	80-120	2.25	20	
Toluene	0.0838	0.00111	"	0.111	ND	75.5	80-120	0.212	20	QM-05
Ethylbenzene	0.0808	0.00111	"	0.111	ND	72.8	80-120	1.69	20	QM-05
Xylene (p/m)	0.147	0.00222	"	0.222	ND	66.3	80-120	1.68	20	QM-05
Xylene (o)	0.0768	0.00111	"	0.111	ND	69.1	80-120	1.12	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.133*		*96.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.133*		*100*	*80-120*			
Batch P3D2003 - * DEFAULT PREP *** **										
Blank (P3D2003-BLK1)				Prepared & Analyzed: 04/20/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*98.9*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D2003 - * DEFAULT PREP *** **										
LCS (P3D2003-BS1)				Prepared & Analyzed: 04/20/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		108	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
LCS Dup (P3D2003-BSD1)				Prepared & Analyzed: 04/20/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120	2.48	20	
Toluene	0.111	0.00100	"	0.100		111	80-120	1.42	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	1.98	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	2.91	20	
Xylene (o)	0.104	0.00100	"	0.100		104	80-120	1.52	20	
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*104*	*80-120*			
Calibration Blank (P3D2003-CCB1)				Prepared & Analyzed: 04/20/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.108*		"	*0.120*		*90.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*96.0*	*80-120*			
Calibration Blank (P3D2003-CCB2)				Prepared & Analyzed: 04/20/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.230		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.0979*		"	*0.120*		*81.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.6*	*80-120*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D2003 - * DEFAULT PREP *** **										
Calibration Check (P3D2003-CCV1)				Prepared & Analyzed: 04/20/23						
Benzene	0.103	0.00100	mg/kg	0.100		103	80-120			
Toluene	0.0898	0.00100	"	0.100		89.8	80-120			
Ethylbenzene	0.0826	0.00100	"	0.100		82.6	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.3	80-120			
Xylene (o)	0.0855	0.00100	"	0.100		85.5	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.9*	*75-125*			
Calibration Check (P3D2003-CCV2)				Prepared & Analyzed: 04/20/23						
Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.120*		*86.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*75-125*			
Calibration Check (P3D2003-CCV3)				Prepared: 04/20/23 Analyzed: 04/21/23						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.8*	*75-125*			
Matrix Spike (P3D2003-MS1)	**Source: 3D13001-61**			Prepared & Analyzed: 04/20/23						
Benzene	0.0998	0.00100	mg/kg dry	0.100	ND	99.8	80-120			
Toluene	0.0975	0.00100	"	0.100	ND	97.5	80-120			
Ethylbenzene	0.0968	0.00100	"	0.100	ND	96.8	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200	ND	89.4	80-120			
Xylene (o)	0.0864	0.00100	"	0.100	ND	86.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D2003 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D2003-MSD1)	**Source: 3D13001-61**			Prepared: 04/20/23 Analyzed: 04/21/23						
Benzene	0.0998	0.00100	mg/kg dry	0.100	ND	99.8	80-120	0.0601	20	
Toluene	0.0976	0.00100	"	0.100	ND	97.6	80-120	0.103	20	
Ethylbenzene	0.0974	0.00100	"	0.100	ND	97.4	80-120	0.597	20	
Xylene (p/m)	0.180	0.00200	"	0.200	ND	89.9	80-120	0.564	20	
Xylene (o)	0.0871	0.00100	"	0.100	ND	87.1	80-120	0.876	20	
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*109*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1403 - TX 1005										
Blank (P3D1403-BLK1)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.4*		"	*100*		*86.4*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		"	*50.0*		*93.3*	*70-130*			
LCS (P3D1403-BS1)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	1000	25.0	mg/kg	1000		100	75-125			
>C12-C28	947	25.0	"	1000		94.7	75-125			
Surrogate: 1-Chlorooctane	*115*		"	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*54.8*		"	*50.0*		*110*	*70-130*			
LCS Dup (P3D1403-BSD1)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	1010	25.0	mg/kg	1000		101	75-125	1.06	20	
>C12-C28	950	25.0	"	1000		95.0	75-125	0.356	20	
Surrogate: 1-Chlorooctane	*116*		"	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*57.1*		"	*50.0*		*114*	*70-130*			
Calibration Check (P3D1403-CCV1)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	509	25.0	mg/kg	500		102	85-115			
>C12-C28	523	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	*100*		"	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*46.8*		"	*50.0*		*93.5*	*70-130*			
Calibration Check (P3D1403-CCV2)				Prepared: 04/14/23 Analyzed: 04/16/23						
C6-C12	515	25.0	mg/kg	500		103	85-115			
>C12-C28	548	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	*103*		"	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*47.4*		"	*50.0*		*94.7*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1403 - TX 1005										
Duplicate (P3D1403-DUP1)	**Source: 3D12003-02**			Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	ND	25.3	mg/kg dry		ND				20	
>C12-C28	ND	25.3	"		ND				20	
Surrogate: 1-Chlorooctane	*80.4*		"	*101*		*79.6*	*70-130*			
Surrogate: o-Terphenyl	*41.8*		"	*50.5*		*82.8*	*70-130*			
Batch P3D1409 - TX 1005										
Blank (P3D1409-BLK1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*80.8*		"	*100*		*80.8*	*70-130*			
Surrogate: o-Terphenyl	*43.2*		"	*50.0*		*86.3*	*70-130*			
LCS (P3D1409-BS1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	1000	25.0	mg/kg	1000		100	75-125			
>C12-C28	873	25.0	"	1000		87.3	75-125			
Surrogate: 1-Chlorooctane	*109*		"	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*48.5*		"	*50.0*		*96.9*	*70-130*			
LCS Dup (P3D1409-BSD1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	1010	25.0	mg/kg	1000		101	75-125	0.531	20	
>C12-C28	882	25.0	"	1000		88.2	75-125	1.05	20	
Surrogate: 1-Chlorooctane	*111*		"	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*52.1*		"	*50.0*		*104*	*70-130*			
Calibration Check (P3D1409-CCV1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	512	25.0	mg/kg	500		102	85-115			
>C12-C28	476	25.0	"	500		95.2	85-115			
Surrogate: 1-Chlorooctane	*96.5*		"	*100*		*96.5*	*70-130*			
Surrogate: o-Terphenyl	*47.1*		"	*50.0*		*94.2*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1409 - TX 1005										
Calibration Check (P3D1409-CCV2)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	519	25.0	mg/kg	500		104	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*97.8*		*"*	*100*		*97.8*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.4*	*70-130*			
Matrix Spike (P3D1409-MS1)		**Source: 3D13001-29**		Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	894	25.3	mg/kg dry	1010	14.2	87.1	75-125			
>C12-C28	801	25.3	"	1010	ND	79.3	75-125			
Surrogate: 1-Chlorooctane	*99.8*		*"*	*101*		*98.8*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		*"*	*50.5*		*97.3*	*70-130*			
Matrix Spike Dup (P3D1409-MSD1)		**Source: 3D13001-29**		Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	940	25.3	mg/kg dry	1010	14.2	91.6	75-125	5.14	20	
>C12-C28	856	25.3	"	1010	ND	84.7	75-125	6.62	20	
Surrogate: 1-Chlorooctane	*106*		*"*	*101*		*105*	*70-130*			
Surrogate: o-Terphenyl	*52.5*		*"*	*50.5*		*104*	*70-130*			
Batch P3D1412 - TX 1005										
Blank (P3D1412-BLK1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.8*		*"*	*100*		*86.8*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		*"*	*50.0*		*93.9*	*70-130*			
LCS (P3D1412-BS1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	961	25.0	mg/kg	1000		96.1	75-125			
>C12-C28	922	25.0	"	1000		92.2	75-125			
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*51.5*		*"*	*50.0*		*103*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
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Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1412 - TX 1005										
LCS Dup (P3D1412-BSD1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	984	25.0	mg/kg	1000		98.4	75-125	2.36	20	
>C12-C28	943	25.0	"	1000		94.3	75-125	2.32	20	
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		*"*	*50.0*		*93.2*	*70-130*			
Calibration Check (P3D1412-CCV1)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	494	25.0	mg/kg	500		98.8	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*99.2*		*"*	*100*		*99.2*	*70-130*			
Surrogate: o-Terphenyl	*44.8*		*"*	*50.0*		*89.5*	*70-130*			
Calibration Check (P3D1412-CCV2)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	480	25.0	mg/kg	500		96.0	85-115			
>C12-C28	547	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	*95.8*		*"*	*100*		*95.8*	*70-130*			
Surrogate: o-Terphenyl	*47.9*		*"*	*50.0*		*95.8*	*70-130*			
Calibration Check (P3D1412-CCV3)				Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	519	25.0	mg/kg	500		104	85-115			
>C12-C28	568	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	*103*		*"*	*100*		*103*	*70-130*			
Surrogate: o-Terphenyl	*50.9*		*"*	*50.0*		*102*	*70-130*			
Matrix Spike (P3D1412-MS1)	**Source: 3D13001-49**			Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	926	25.8	mg/kg dry	1030	9.87	88.8	75-125			
>C12-C28	883	25.8	"	1030	ND	85.7	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*103*		*106*	*70-130*			
Surrogate: o-Terphenyl	*50.3*		*"*	*51.5*		*97.5*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
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Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1412 - TX 1005										
Matrix Spike Dup (P3D1412-MSD1)	**Source: 3D13001-49**			Prepared: 04/14/23 Analyzed: 04/17/23						
C6-C12	889	25.8	mg/kg dry	1030	9.87	85.3	75-125	4.02	20	
>C12-C28	850	25.8	"	1030	ND	82.4	75-125	3.88	20	
Surrogate: 1-Chlorooctane	*104*		*"*	*103*		*101*	*70-130*			
Surrogate: o-Terphenyl	*47.1*		*"*	*51.5*		*91.3*	*70-130*			
Batch P3D1810 - TX 1005										
Blank (P3D1810-BLK1)				Prepared: 04/18/23 Analyzed: 04/20/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*88.2*		*"*	*100*		*88.2*	*70-130*			
Surrogate: o-Terphenyl	*49.8*		*"*	*50.0*		*99.6*	*70-130*			
LCS (P3D1810-BS1)				Prepared: 04/18/23 Analyzed: 04/20/23						
C6-C12	903	25.0	mg/kg	1000		90.3	75-125			
>C12-C28	896	25.0	"	1000		89.6	75-125			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*54.0*		*"*	*50.0*		*108*	*70-130*			
LCS Dup (P3D1810-BSD1)				Prepared: 04/18/23 Analyzed: 04/20/23						
C6-C12	854	25.0	mg/kg	1000		85.4	75-125	5.59	20	
>C12-C28	836	25.0	"	1000		83.6	75-125	6.92	20	
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
Calibration Check (P3D1810-CCV1)				Prepared: 04/18/23 Analyzed: 04/20/23						
C6-C12	471	25.0	mg/kg	500		94.2	85-115			
>C12-C28	513	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*53.7*		*"*	*50.0*		*107*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
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Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1810 - TX 1005										
Calibration Check (P3D1810-CCV2)				Prepared: 04/18/23 Analyzed: 04/20/23						
C6-C12	499	25.0	mg/kg	500		99.7	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*55.3*		*"*	*50.0*		*111*	*70-130*			
Matrix Spike (P3D1810-MS1)		**Source: 3D13001-61**		Prepared: 04/18/23 Analyzed: 04/21/23						
C6-C12	851	25.0	mg/kg dry	1000	10.3	84.1	75-125			
>C12-C28	844	25.0	"	1000	9.86	83.4	75-125			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*49.3*		*"*	*50.0*		*98.5*	*70-130*			
Matrix Spike Dup (P3D1810-MSD1)		**Source: 3D13001-61**		Prepared: 04/18/23 Analyzed: 04/21/23						
C6-C12	854	25.0	mg/kg dry	1000	10.3	84.4	75-125	0.384	20	
>C12-C28	853	25.0	"	1000	9.86	84.3	75-125	1.07	20	
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		*"*	*50.0*		*99.2*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
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Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1416 - * DEFAULT PREP *** **										
Blank (P3D1416-BLK1)				Prepared: 04/17/23 Analyzed: 04/19/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D1416-BS1)				Prepared: 04/17/23 Analyzed: 04/19/23						
Chloride	18.7		mg/kg	20.0		93.7	90-110			
LCS Dup (P3D1416-BSD1)				Prepared: 04/17/23 Analyzed: 04/19/23						
Chloride	18.6		mg/kg	20.0		92.9	90-110	0.820	10	
Calibration Check (P3D1416-CCV1)				Prepared: 04/17/23 Analyzed: 04/19/23						
Chloride	18.3		mg/kg	20.0		91.5	90-110			
Calibration Check (P3D1416-CCV2)				Prepared: 04/17/23 Analyzed: 04/21/23						
Chloride	18.8		mg/kg	20.0		94.1	90-110			
Matrix Spike (P3D1416-MS1)		**Source: 3D12006-14**		Prepared: 04/17/23 Analyzed: 04/20/23						
Chloride	132		mg/kg	100	32.3	99.6	80-120			
Matrix Spike (P3D1416-MS2)		**Source: 3D13001-02**		Prepared: 04/17/23 Analyzed: 04/21/23						
Chloride	77.2		mg/kg	50.0	40.4	73.6	80-120			QM-05
Matrix Spike Dup (P3D1416-MSD1)		**Source: 3D12006-14**		Prepared: 04/17/23 Analyzed: 04/20/23						
Chloride	132		mg/kg	100	32.3	99.4	80-120	0.0956	20	
Matrix Spike Dup (P3D1416-MSD2)		**Source: 3D13001-02**		Prepared: 04/17/23 Analyzed: 04/21/23						
Chloride	78.2		mg/kg	50.0	40.4	75.6	80-120	1.28	20	QM-05
Batch P3D1904 - * DEFAULT PREP *** **										
Blank (P3D1904-BLK1)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	ND	1.00	mg/kg							

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1904 - * DEFAULT PREP *** **										
LCS (P3D1904-BS1)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	19.1		mg/kg	20.0		95.4	90-110			
LCS Dup (P3D1904-BSD1)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	19.0		mg/kg	20.0		95.0	90-110	0.415	10	
Calibration Check (P3D1904-CCV1)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	19.0		mg/kg	18.0		106	90-110			
Calibration Check (P3D1904-CCV2)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	18.8		mg/kg	18.0		104	90-110			
Calibration Check (P3D1904-CCV3)				Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	18.5		mg/kg	18.0		103	90-110			
Matrix Spike (P3D1904-MS1)		**Source: 3D13001-12**		Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	174		mg/kg	50.0	109	130	80-120			QM-05
Matrix Spike (P3D1904-MS2)		**Source: 3D13001-22**		Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	78.2		mg/kg	50.0	21.8	113	80-120			
Matrix Spike Dup (P3D1904-MSD1)		**Source: 3D13001-12**		Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	174		mg/kg	50.0	109	131	80-120	0.262	20	QM-05
Matrix Spike Dup (P3D1904-MSD2)		**Source: 3D13001-22**		Prepared: 04/19/23 Analyzed: 04/21/23						
Chloride	65.9		mg/kg	50.0	21.8	88.3	80-120	17.0	20	
Batch P3D1908 - * DEFAULT PREP *** **										
Blank (P3D1908-BLK1)				Prepared & Analyzed: 04/19/23						
% Moisture	ND	0.1	%							

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1908 - * DEFAULT PREP *** **										
Duplicate (P3D1908-DUP1)		**Source: 3D12004-07**		Prepared & Analyzed: 04/19/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3D1908-DUP2)		**Source: 3D12005-08**		Prepared & Analyzed: 04/19/23						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P3D1908-DUP3)		**Source: 3D12006-13**		Prepared & Analyzed: 04/19/23						
% Moisture	3.0	0.1	%		2.0			40.0	20	R
Duplicate (P3D1908-DUP4)		**Source: 3D13001-15**		Prepared & Analyzed: 04/19/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3D1908-DUP5)		**Source: 3D13001-25**		Prepared & Analyzed: 04/19/23						
% Moisture	1.0	0.1	%		ND			200	20	R
Duplicate (P3D1908-DUP6)		**Source: 3D13001-40**		Prepared & Analyzed: 04/19/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3D1908-DUP7)		**Source: 3D13001-50**		Prepared & Analyzed: 04/19/23						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P3D1908-DUP8)		**Source: 3D13003-01**		Prepared & Analyzed: 04/19/23						
% Moisture	10.0	0.1	%		8.0			22.2	20	R
Duplicate (P3D1908-DUP9)		**Source: 3D13006-01**		Prepared & Analyzed: 04/19/23						
% Moisture	ND	0.1	%		2.0			200	20	R
Duplicate (P3D1908-DUPA)		**Source: 3D13008-01**		Prepared & Analyzed: 04/19/23						
% Moisture	9.0	0.1	%		10.0			10.5	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D1908 - * DEFAULT PREP *** **										
Duplicate (P3D1908-DUPB)	**Source: 3D14003-01**			Prepared & Analyzed: 04/19/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch P3D2106 - * DEFAULT PREP *** **										
Blank (P3D2106-BLK1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D2106-BS1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	18.8		mg/kg	20.0		94.0	90-110			
LCS Dup (P3D2106-BSD1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	19.0		mg/kg	20.0		94.8	90-110	0.948	10	
Calibration Check (P3D2106-CCV1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	18.7		mg/kg	18.0		104	90-110			
Calibration Check (P3D2106-CCV2)				Prepared: 04/20/23 Analyzed: 04/22/23						
Chloride	18.5		mg/kg	18.0		103	90-110			
Matrix Spike (P3D2106-MS1)	**Source: 3D13001-32**			Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	172		mg/kg	100	66.5	105	80-120			
Matrix Spike (P3D2106-MS2)	**Source: 3D13001-42**			Prepared: 04/20/23 Analyzed: 04/22/23						
Chloride	197		mg/kg	100	85.3	112	80-120			
Matrix Spike Dup (P3D2106-MSD1)	**Source: 3D13001-32**			Prepared: 04/20/23 Analyzed: 04/21/23						
Chloride	171		mg/kg	100	66.5	104	80-120	0.544	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D2106 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D2106-MSD2)	**Source: 3D13001-42**			Prepared: 04/20/23 Analyzed: 04/22/23						
Chloride	196		mg/kg	100	85.3	111	80-120	0.341	20	
Batch P3D2107 - * DEFAULT PREP *** **										
Blank (P3D2107-BLK1)				Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	ND	1.00	mg/kg							
LCS (P3D2107-BS1)				Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	18.2		mg/kg	20.0		91.2	90-110			
LCS Dup (P3D2107-BSD1)				Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	18.9		mg/kg	20.0		94.3	90-110	3.29	10	
Calibration Check (P3D2107-CCV1)				Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	17.1		mg/kg	18.0		94.9	90-110			
Calibration Check (P3D2107-CCV2)				Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	17.2		mg/kg	18.0		95.5	90-110			
Calibration Check (P3D2107-CCV3)				Prepared: 04/20/23 Analyzed: 04/24/23						
Chloride	17.0		mg/kg	18.0		94.3	90-110			
Matrix Spike (P3D2107-MS1)	**Source: 3D13001-52**			Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	59.4		mg/kg	50.0	7.02	105	80-120			
Matrix Spike (P3D2107-MS2)	**Source: 3D13007-01**			Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	74.4		mg/kg	50.0	23.4	102	80-120			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D2107 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3D2107-MSD1)	**Source: 3D13001-52**			Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	57.0		mg/kg	50.0	7.02	100	80-120	4.09	20	
Matrix Spike Dup (P3D2107-MSD2)	**Source: 3D13007-01**			Prepared: 04/20/23 Analyzed: 04/23/23						
Chloride	71.6		mg/kg	50.0	23.4	96.4	80-120	3.90	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

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

Report Approved By: Brent Barron Date: 4/24/2023

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project:	Red Tanks 2nd Spill
P.O. Box 50685	Project Number:	22-0104-10
Midland TX, 79710	Project Manager:	Mark Larson

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/13/2023 PAGE 1 OF 5
PO#: LAB WORK ORDER#: 3D1300 1
PROJECT LOCATION OR NAME: Red Tanks 2nd spill
LAI PROJECT #: 22-0104-10 COLLECTOR: JH/MF

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-1 4.1'	1	4/12/23	1200	S	1				X		X		X	X	X													X			
C-2 4.1'	2		1205																											
C-3 4.1'	3		1210																											
C-4 4.1'	4		1215																											
C-5 4.1'	5		1220																											
C-6 4.1'	6		1225																											
C-7 4.1'	7		1230																											
C-8 4.1'	8		1235																											
C-9 4.1'	9		1240																											
C-10 4.1'	10		1245																											
C-11 4.1'	11		1250																											
C-12 4.1'	12		1255																											
C-13 4.1'	13		1300																											
C-14 4.1'	14		1305																											
C-15 4.1'	15		1310																											
TOTAL	15																													

RELINQUISHED BY:(Signature) Daniel Stephens DATE/TIME 4/13/23 9:46 RECEIVED BY: (Signature) Olivia Blake
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -13.0 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

№ 1838

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/13/2023 PAGE 2 OF 5
PO#:
LAB WORK ORDER#: 3D13001
PROJECT LOCATION OR NAME: Red Tanks 2nd spill
LAI PROJECT #: 22-0104-10 COLLECTOR: JH/MF

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MNT/NM

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

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐; TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐; GASOLINE MOD 8015 ☒; DIESEL - MOD 8015 ☒; OIL - MOD 8015 ☒; VOC 8260 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐; 8081 PESTICIDES ☐ 8151 HERBICIDES ☐; 8082 PCBS ☐; TCLP - METALS (RCRA) ☐ TCLP VOC ☐; TCLP - PEST ☐ HERB ☐ Semi-VOC ☐; TOTAL METALS (RCRA) ☐ OTHER LIST ☐; LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐; RCI ☐ TOX ☐ FLASHPOINT ☐; TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐; pH ☐ HEXAVALENT CHROMIUM ☐; EXPLOSIVES ☐ PECHLORATE ☐; CHLORIDE ☒ 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	VOC 8260	SVOC 8270	8081 PESTICIDES	8082 PCBS	TCLP - METALS	TCLP - PEST	TOTAL METALS	LEAD - TOTAL	RCI	TDS	pH	EXPLOSIVES	CHLORIDE			FIELD NOTES
C-16 4.1'	16	4/12/23	1315	S	1				X		X		X	X	X													X			
C-17 4.1'	17		1320																												
C-18 4.1'	18		1325																												
C-19 0-4.1'	19		1330																												
C-20 0-4.1'	20		1335																												
C-21 4.1'	21		1340																												
C-22 4.1'	22		1345																												
C-23 4.1'	23		1350																												
C-24 4.1'	24		1355																												
C-25 4.1'	25		1400																												
C-26 4.1'	26		1405																												
C-27 4.1'	27		1410																												
C-28 4.1'	28		1415																												
C-29 4.1'	29		1420																												
C-30 4.1'	30		1425																												

TOTAL 15

RELINQUISHED BY:(Signature) David Hyman DATE/TIME 4/13/2023 9:16 RECEIVED BY: (Signature) [signature]
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -13.0 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Nº 1839

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/13/2023 PAGE 3 OF 5
PO#: LAB WORK ORDER#: 3D13001
PROJECT LOCATION OR NAME: Red Tanks 2nd spill
LAI PROJECT #: 22-0104-10 COLLECTOR: JH / MF

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 ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-31 4.1'	31	4/12/23	1430	S	1				X		X			X	X	X												X			
C-32 4.1'	32	"	1445	"	"				"		"			"	"	"												"			
C-33 4.1'	33	"	1450	"	"				"		"			"	"	"												"			
C-34 4.1'	34	"	1455	"	"				"		"			"	"	"												"			
C-35 4.1'	35	"	1500	"	"				"		"			"	"	"												"			
C-36 4.1'	36	"	1505	"	"				"		"			"	"	"												"			
C-37 4.1'	37	"	1510	"	"				"		"			"	"	"												"			
C-38 4.1'	38	"	1520	"	"				"		"			"	"	"												"			
C-39 4.1'	39	"	1525	"	"				"		"			"	"	"												"			
C-40 4.1'	40	"	1530	"	"				"		"			"	"	"												"			
C-41 4.1'	41	"	1535	"	"				"		"			"	"	"												"			
C-42 4.1'	42	"	1540	"	"				"		"			"	"	"												"			
C-43 4.1'	43	"	1545	"	"				"		"			"	"	"												"			
C-44 4.1'	44	"	1550	"	"				"		"			"	"	"												"			
C-45 0-4.1'	45	"	1555	"	"				"		"			"	"	"												"			

TOTAL 150

RELINQUISHED BY:(Signature) Brandon Summers DATE/TIME 4/13/23 9:16 RECEIVED BY:(Signature) Tina Blaise
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 13.0 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

№ 1840

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 4/13/2023 PAGE 4 OF 4

PO#: LAB WORK ORDER#: 3D13001

PROJECT LOCATION OR NAME: Red Tanks 2nd Spill

LAI PROJECT #: 22-6104-10 COLLECTOR: JH/MP

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-46 0-4.1'	46	4/12/23	1600	S	1				X		X			X	X	X													X		
C-47 0-4.1'	47	"	1605	"	"				"		"			"	"	"													"		
C-48 0-4.1'	48	"	1610	"	"				"		"			"	"	"													"		
C-49 0-4.1'	49	"	1615	"	"				"		"			"	"	"													"		
C-50 1'	50	"	1620	"	"				"		"			"	"	"													"		
C-51 1'	51	"	1625	"	"				"		"			"	"	"													"		
C-52 1'	52	"	1630	"	"				"		"			"	"	"													"		
C-53 1'	53	"	1635	"	"				"		"			"	"	"													"		
C-54 1'	54	"	1640	"	"				"		"			"	"	"													"		
C-55 1'	55	"	1645	"	"				"		"			"	"	"													"		
C-56 1'	56	"	1650	"	"				"		"			"	"	"													"		
C-57 1'	57	"	1655	"	"				"		"			"	"	"													"		
C-58 1'	58	"	1700	"	"				"		"			"	"	"													"		
C-59 1'	59	"	1705	"	"				"		"			"	"	"													"		
C-60 0-1'	60	"	1710	"	"				"		"			"	"	"													"		

TOTAL 15

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY:(Signature)
Daniel Rhoads	4/13/23 9:16	Tyson Bledsoe
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -13.0 THERM#: NCF L3
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

№ 1841

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 4/13/2023 PAGE 5 OF 5

PO#: LAB WORK ORDER#: 3D13001

PROJECT LOCATION OR NAME: Red Tanks 2nd spill

LAI PROJECT #: 22-0104-10 COLLECTOR: JH/MF

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-61 0-1'	61	4/12/23	1715	S	1				X		X		X	X	X													X			
TOTAL 1																															

RELINQUISHED BY:(Signature) Daniel Ottyman DATE/TIME 4/13/23 9:16 RECEIVED BY: (Signature) Trisa Bledsoe

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 13.0 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Red Tanks 2nd Spill

Project Number: 22-0104-10

Location: New Mexico

Lab Order Number: 3E01006

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 05/08/23

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF-1	3E01006-01	Soil	04/28/23 00:00	05-01-2023 09:03
BF-2	3E01006-02	Soil	04/28/23 00:00	05-01-2023 09:03
BF-3	3E01006-03	Soil	04/28/23 00:00	05-01-2023 09:03
BF-4	3E01006-04	Soil	04/28/23 00:00	05-01-2023 09:03

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BF-1

3E01006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 02:47	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 02:47	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 02:47	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 02:47	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 02:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 02:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.5 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 02:47*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:07	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:07	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:07	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.3 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:07*	*TPH 8015M*	
Surrogate: o-Terphenyl		*106 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:07*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 19:07	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.01	mg/kg dry	1	P3E0215	05/02/23 17:00	05/05/23 23:32	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BF-2

3E01006-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:08	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:08	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:08	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:08	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:32	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:32	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:32	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.2 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:32*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:32*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 19:32	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.01	mg/kg dry	1	P3E0215	05/02/23 17:00	05/05/23 23:47	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BF-3

3E01006-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:29	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:29	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:29	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:29	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.8 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:29*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:56	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:56	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 19:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.4 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.9 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 19:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 19:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.12**	1.01	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 00:01	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BF-4

3E01006-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:49	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:49	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:49	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:49	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3E0108	05/01/23 12:00	05/02/23 03:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:49*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P3E0108*	*05/01/23 12:00*	*05/02/23 03:49*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:21	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:21	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3E0114	05/01/23 15:30	05/02/23 20:21	TPH 8015M	
Surrogate: 1-Chlorooctane		*77.8 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 20:21*	*TPH 8015M*	
Surrogate: o-Terphenyl		*82.8 %*	*70-130*		*P3E0114*	*05/01/23 15:30*	*05/02/23 20:21*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/01/23 15:30	05/02/23 20:21	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.00**	1.01	mg/kg dry	1	P3E0215	05/02/23 17:00	05/06/23 00:44	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3E0201	05/02/23 09:35	05/02/23 09:41	ASTM D2216	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0108 - * DEFAULT PREP *** **										
Blank (P3E0108-BLK1)				Prepared & Analyzed: 05/01/23						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.8*	*80-120*			
LCS (P3E0108-BS1)				Prepared & Analyzed: 05/01/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*80-120*			
LCS Dup (P3E0108-BSD1)				Prepared & Analyzed: 05/01/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120	11.2	20	
Toluene	0.0968	0.00100	"	0.100		96.8	80-120	11.9	20	
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120	11.4	20	
Xylene (p/m)	0.183	0.00200	"	0.200		91.5	80-120	11.1	20	
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120	11.7	20	
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*101*	*80-120*			
Calibration Blank (P3E0108-CCB1)				Prepared & Analyzed: 05/01/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.9*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0108 - * DEFAULT PREP *** **										
Calibration Blank (P3E0108-CCB2)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.130		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.5*	*80-120*			
Calibration Check (P3E0108-CCV1)				Prepared & Analyzed: 05/01/23						
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*88.9*	*75-125*			
Calibration Check (P3E0108-CCV2)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.0994	0.00100	mg/kg	0.100		99.4	80-120			
Toluene	0.0975	0.00100	"	0.100		97.5	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.4	80-120			
Xylene (o)	0.0919	0.00100	"	0.100		91.9	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P3E0108-CCV3)				Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0108 - * DEFAULT PREP *** **										
Matrix Spike (P3E0108-MS1)	**Source: 3E01008-01**			Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.103	0.00108	mg/kg dry	0.108	0.00162	94.0	80-120			
Toluene	0.0958	0.00108	"	0.108	0.00259	86.7	80-120			
Ethylbenzene	0.0852	0.00108	"	0.108	ND	79.2	80-120			QM-05
Xylene (p/m)	0.158	0.00215	"	0.215	ND	73.2	80-120			QM-05
Xylene (o)	0.0777	0.00108	"	0.108	ND	72.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.129*		*98.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.129*		*99.3*	*80-120*			
Matrix Spike Dup (P3E0108-MSD1)	**Source: 3E01008-01**			Prepared: 05/01/23 Analyzed: 05/02/23						
Benzene	0.100	0.00108	mg/kg dry	0.108	0.00162	91.8	80-120	2.30	20	
Toluene	0.0950	0.00108	"	0.108	0.00259	85.9	80-120	0.881	20	
Ethylbenzene	0.0790	0.00108	"	0.108	ND	73.4	80-120	7.58	20	QM-05
Xylene (p/m)	0.146	0.00215	"	0.215	ND	67.8	80-120	7.72	20	QM-05
Xylene (o)	0.0708	0.00108	"	0.108	ND	65.8	80-120	9.26	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.129*		*99.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.129*		*98.9*	*80-120*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0114 - TX 1005										
Blank (P3E0114-BLK1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			
LCS (P3E0114-BS1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	945	25.0	mg/kg	1000		94.5	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*122*		*"*	*100*		*122*	*70-130*			
Surrogate: o-Terphenyl	*57.7*		*"*	*50.0*		*115*	*70-130*			
LCS Dup (P3E0114-BSD1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	926	25.0	mg/kg	1000		92.6	75-125	2.01	20	
>C12-C28	906	25.0	"	1000		90.6	75-125	3.63	20	
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*60.8*		*"*	*50.0*		*122*	*70-130*			
Calibration Check (P3E0114-CCV1)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	468	25.0	mg/kg	500		93.7	85-115			
>C12-C28	467	25.0	"	500		93.3	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*56.6*		*"*	*50.0*		*113*	*70-130*			
Calibration Check (P3E0114-CCV2)				Prepared: 05/01/23 Analyzed: 05/02/23						
C6-C12	501	25.0	mg/kg	500		100	85-115			
>C12-C28	493	25.0	"	500		98.7	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*58.1*		*"*	*50.0*		*116*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

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

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0114 - TX 1005										
Calibration Check (P3E0114-CCV3)				Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	496	25.0	mg/kg	500		99.2	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*57.8*		*"*	*50.0*		*116*	*70-130*			
Matrix Spike (P3E0114-MS1)		**Source: 3E01009-16**		Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	911	26.3	mg/kg dry	1050	ND	86.5	75-125			
>C12-C28	903	26.3	"	1050	ND	85.7	75-125			
Surrogate: 1-Chlorooctane	*108*		*"*	*105*		*103*	*70-130*			
Surrogate: o-Terphenyl	*50.0*		*"*	*52.6*		*94.9*	*70-130*			
Matrix Spike Dup (P3E0114-MSD1)		**Source: 3E01009-16**		Prepared: 05/01/23 Analyzed: 05/03/23						
C6-C12	927	26.3	mg/kg dry	1050	ND	88.0	75-125	1.74	20	
>C12-C28	920	26.3	"	1050	ND	87.4	75-125	1.88	20	
Surrogate: 1-Chlorooctane	*112*		*"*	*105*		*107*	*70-130*			
Surrogate: o-Terphenyl	*56.3*		*"*	*52.6*		*107*	*70-130*			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0201 - * DEFAULT PREP *** **										
Blank (P3E0201-BLK1)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK2)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK3)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Blank (P3E0201-BLK4)				Prepared & Analyzed: 05/02/23						
% Moisture	ND	0.1	%							
Duplicate (P3E0201-DUP1)	**Source: 3E01009-12**			Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		5.0			85.7	20	R3
Duplicate (P3E0201-DUP2)	**Source: 3E01009-02**			Prepared & Analyzed: 05/02/23						
% Moisture	5.0	0.1	%		2.0			85.7	20	R3
Duplicate (P3E0201-DUP3)	**Source: 3E01009-27**			Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P3E0201-DUP4)	**Source: 3E01009-37**			Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3E0201-DUP5)	**Source: 3E01009-52**			Prepared & Analyzed: 05/02/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3E0201-DUP6)	**Source: 3E01009-62**			Prepared & Analyzed: 05/02/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0201 - * DEFAULT PREP *** **										
Duplicate (P3E0201-DUP7)		**Source: 3E01010-08**		Prepared & Analyzed: 05/02/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3E0201-DUP8)		**Source: 3E01013-03**		Prepared & Analyzed: 05/02/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3E0201-DUP9)		**Source: 3E01011-09**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		3.0			40.0	20	R3
Duplicate (P3E0201-DUPA)		**Source: 3E01011-19**		Prepared & Analyzed: 05/02/23						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P3E0215 - * DEFAULT PREP *** **										
Blank (P3E0215-BLK1)				Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	ND	1.00	mg/kg							
LCS (P3E0215-BS1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.2		mg/kg	18.4		104	90-110			
LCS Dup (P3E0215-BSD1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.3		mg/kg	18.4		105	90-110	0.478	10	
Calibration Check (P3E0215-CCV1)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	18.3		mg/kg	18.0		102	90-110			
Calibration Check (P3E0215-CCV2)				Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	19.1		mg/kg	18.0		106	90-110			

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E0215 - * DEFAULT PREP *** **										
Matrix Spike (P3E0215-MS1)	**Source: 3D28017-07**			Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	138		mg/kg	100	38.5	99.1	80-120			
Matrix Spike (P3E0215-MS2)	**Source: 3E01006-04**			Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	87.4		mg/kg	100	0.198	87.2	80-120			
Matrix Spike Dup (P3E0215-MSD1)	**Source: 3D28017-07**			Prepared: 05/02/23 Analyzed: 05/05/23						
Chloride	139		mg/kg	100	38.5	101	80-120	1.28	20	
Matrix Spike Dup (P3E0215-MSD2)	**Source: 3E01006-04**			Prepared: 05/02/23 Analyzed: 05/06/23						
Chloride	91.6		mg/kg	100	0.198	91.4	80-120	4.72	20	

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

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

Report Approved By: Brent Barron Date: 5/8/2023

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project: Red Tanks 2nd Spill
P.O. Box 50685	Project Number: 22-0104-10
Midland TX, 79710	Project Manager: Mark Larson

№ 1927

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 202
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 5/1/2023 PAGE 1 OF 1
PO#:
LAB WORK ORDER#: 3E01B006
PROJECT LOCATION OR NAME: Red Tanks 2nd Spill
LAI PROJECT #: 22-0104-10 COLLECTOR: DSG

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	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
BF-1		4/28/23		S	1				X		X		X	X	X													X	
BF-2		↓		S	1				X		X		X	X	X													X	
BF-3		↓		S	1				X		X		X	X	X													X	
BF-4		↓		S	1				X		X		X	X	X													X	

TOTAL 4

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY:(Signature)
[signature]	5/1/23 9:13	[signature]

LABORATORY: DBEL

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

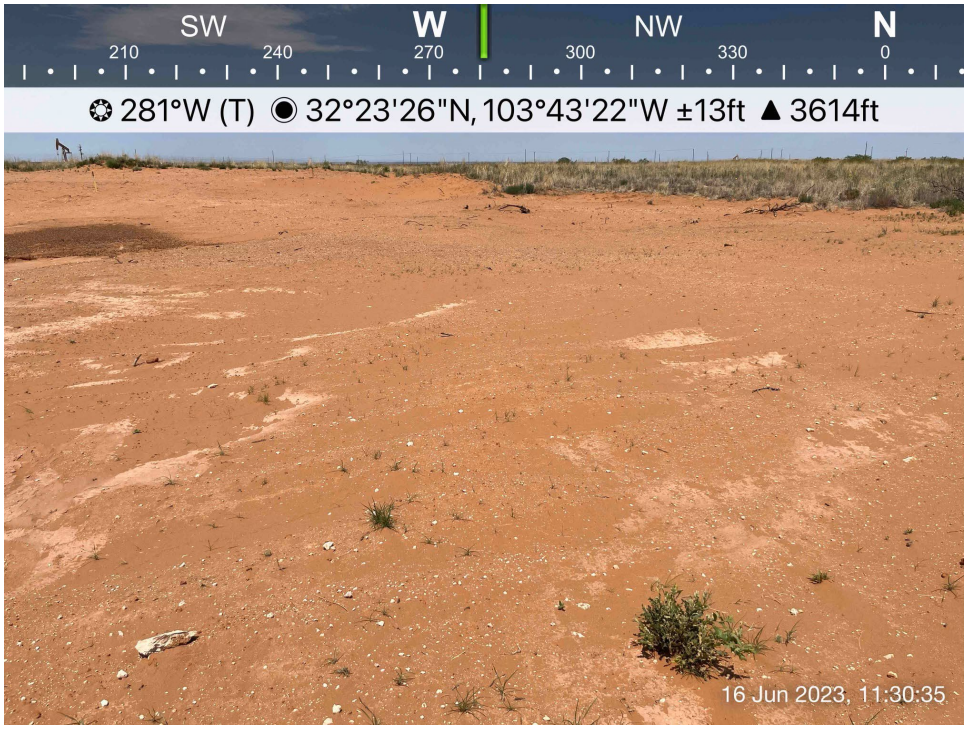
LABORATORY USE ONLY:
RECEIVING TEMP: 1.4 THERM#: NCF 13
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Appendix E

Photographic Documentation

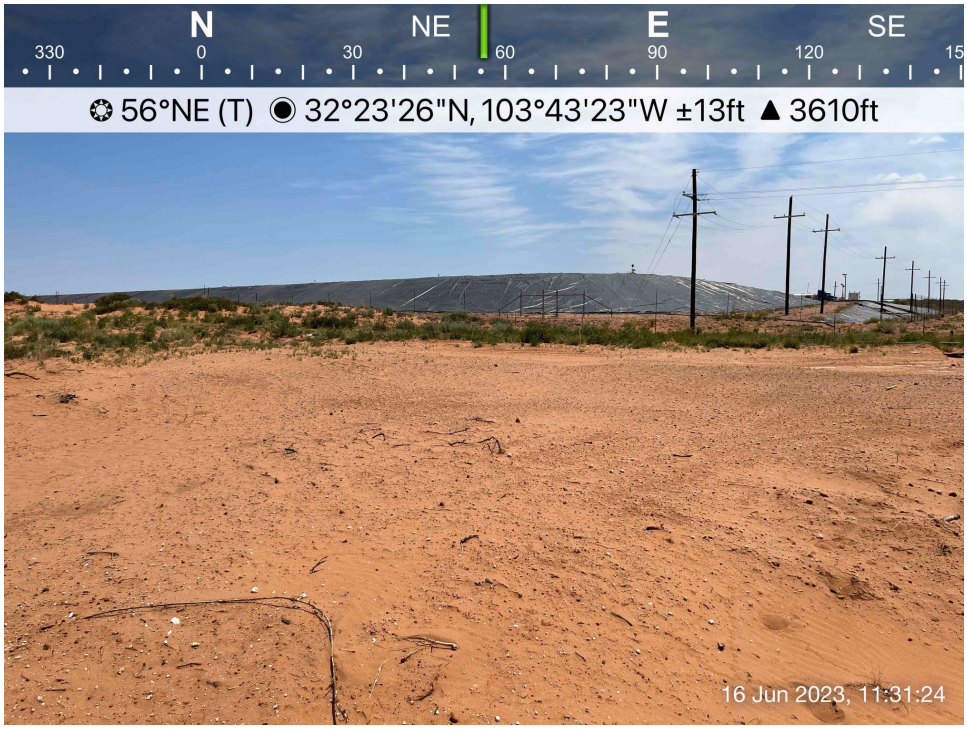
Completed excavation on May 3, 2023, viewing to the north (32.39055, -103.72305).

Completed excavation on May 3, 2023, viewing to the north (32.39055, -103.72305).

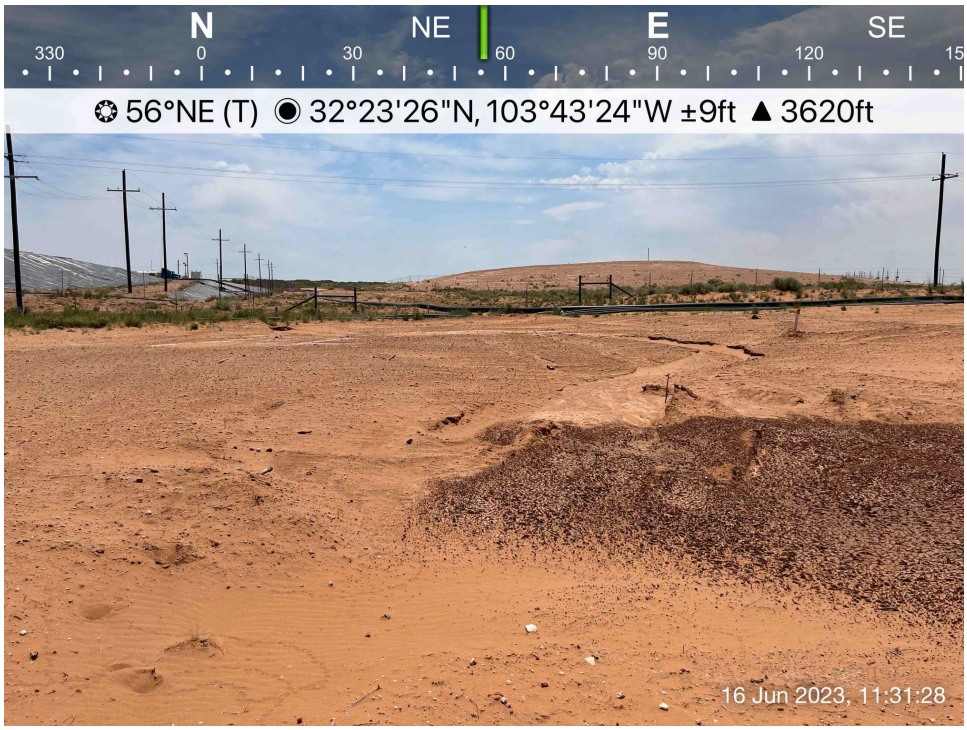


Backfilled and seeded excavation, viewing to the west.

Backfilled and seeded excavation, viewing to the west.



Backfilled and seeded excavation, viewing to the northeast.



Backfilled and seeded excavation, viewing to the northeast.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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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 314992

QUESTIONS

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2233947666**
Incident Name	**NAPP2233947666 LOST/RED TANKS SPILL @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LOST/RED TANKS SPILL
Date Release Discovered	10/09/2022
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: Vandalism | Pipeline (Any) | Produced Water | Released: 330 BBL | Recovered: 402 BBL | Lost: -72 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;** **(?) reported amounts release resulting in negative volume.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/15/2024

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	14200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	168
GRO+DRO (EPA SW-846 Method 8015M)	168
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	04/01/2023
On what date will (or did) the final sampling or liner inspection occur	04/12/2023
On what date will (or was) the remediation complete(d)	05/01/2023
What is the estimated surface area (in square feet) that will be reclaimed	8838
What is the estimated volume (in cubic yards) that will be reclaimed	1120
What is the estimated surface area (in square feet) that will be remediated	8838
What is the estimated volume (in cubic yards) that will be remediated	1120
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	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	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/15/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	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

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**316765**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/12/2023**
What was the (estimated) number of samples that were to be gathered	**61**
What was the sampling surface area in square feet	**12200**

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	8838
What was the total volume (cubic yards) remediated	1120
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	8838
What was the total volume (in cubic yards) reclaimed	1120
Summarize any additional remediation activities not included by answers (above)	Backfill notice sent in by email 4/28/2023.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Timsan Bricker Title: ENV Coordinator Email: tbricker@selectenergy.com Date: 02/15/2024

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QUESTIONS (continued)

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 314992

CONDITIONS

Operator:	OGRID:
SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	289068
	Action Number: 314992
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2233947666 LOST/RED TANKS SPILL, thank you. This Remediation Closure Report is approved.	4/17/2024