

Incident ID	nRM2009061396
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?	31 (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.

State of New Mexico
Oil Conservation Division

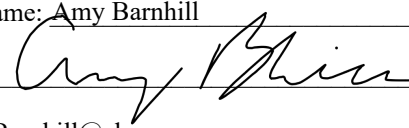
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Incident ID	nRM2009061396
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill

Title: Waste and Water Specialist

Signature: 

Date: 1-21-21

email: ABarnhill@chevron.com

Telephone: 432-687-7108

OCD Only

Received by: Cristina Eads

Date: 01/21/2021

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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)

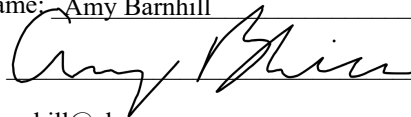
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ 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: Amy Barnhill

Title: Waste and Water Specialist

Signature: 

Date: 1-21-21

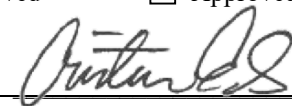
email: ABarnhill@chevron.com

Telephone: 432-687-7108

OCD Only

Received by: Cristina Eads

Date: 01/21/2021

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: 

Date: 04/12/2021

Tracking Number: nRM2009061396
Delineation Report and Remediation Plan
Skeen 23 CTB
Produced Water Release
Eddy County, New Mexico

Latitude: N 32.021294°
Longitude: W -104.257430°

LAI Project No. 20-0107-09

January 21, 2021

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

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



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



Robert Nelson
Sr. Geoscientist

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nRM2009061396
Delineation Report and Remediation Plan
Chevron USA, Inc., Skeen 23 CTB
Produced Water Release
January 21, 2021

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District II for a produced water release at the Skeen 23 CTB (Site) located in Unit P (SE/4, SE/4), Section 23, Township 26 South, Range 26 East in Eddy County, New Mexico. The geodetic position is North 32.021294° and West -104.257430°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on March 3, 2020 and occurred due to a pinhole leak on a discharge pump. The release was contained in the lined berm. Chevron reported that 5.5 barrels (bbls) of produced water was released and 5 bbls were recovered. The affected area measures approximately 594 square feet. The initial C-141 was submitted to OCD District II and assigned incident number nRM2009061396. Appendix A presents the Chevron spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,212 feet above mean sea level (msl).
- The surface topography gradually decreases to the east.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “High Risk” potential.
- The soils are designated as Reeves – Gypsum land complex, 0 to 3 percent slopes, consisting of 0 to 8 inches of loam, underlain by 8 to 32 inches of clay loam, and 32 to 60 inches of gypsiferous material.
- The geology consists of the Salado Formation (Upper Permian), evaporite sequence, dominantly halite.
- Groundwater was reported at approximately 31 feet below ground surface (bgs) from a well located approximately 1.79 miles northwest of the Site and measured in 1980 (USGS).

Appendix B presents the karst risk potential map.

1.3 Remediation Standards

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

- | | |
|------------|-----------|
| • Benzene | 10 mg/Kg |
| • BTEX | 50 mg/Kg |
| • TPH | 100 mg/Kg |
| • Chloride | 600 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.

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Delineation Report and Remediation Plan
Chevron USA, Inc., Skeen 23 CTB
Produced Water Release
January 21, 2021

2.0 DELINEATION

On April 1, 2020, LAI personnel used a stainless-steel hand auger to collect soil samples from seven (7) locations (S-1 through S-5 and S-10) inside the spill to vertically delineate the release and four (4) locations (S-6 through S-9) to horizontally delineate the release. The samples were collected to approximately 1-foot bgs, depending on subsurface conditions. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Figure 2 presents an aerial map showing the sample locations.

Benzene, BTEX, and TPH were reported below the remediation standards of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, and 100 mg/Kg, respectively. Chloride exceeded the OCD remediation limit of 600 mg/Kg in the following samples.

Sample ID	Depth (Feet)	Chloride (mg/Kg)
S-1	0 – 0.5	5,460
S-2	0 – 0.5	11,600
S-3	0 – 0.5	3,560
S-4	0 – 0.5	5,300
S-5	0 – 0.5	9,460
S-10	0 – 0.5	7,230

On May 1, 5, and 6, 2020, LAI personnel used a Geoprobe® 7822DT direct push rig to further delineate chloride at sample locations S-1 through S-5 and S-10. Soil samples were collected at 1, 3, 5, and 10 feet bgs, depending on subsurface conditions. Xenco analyzed the samples for benzene, BTEX, TPH, and chloride. Laboratory analysis indicated one (1) sample location S-5 remained above the OCD delineation limit for chloride (600 mg/Kg) at 1,710 mg/Kg.

One July 1, 2020, Scarborough Drilling, Inc. (SDI) under supervision from LAI personnel further delineated sample location S-5 to a depth of approximately twenty (20) feet bgs. The samples were analyzed for chloride by EPA Method 300. The laboratory results demonstrate the release was delineated according to the OCD remediation and closure requirements (19.15.29.12 NMAC Table 1) for groundwater less than 50 feet bgs.

3.0 Remediation Plan

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 412 square feet, encompassing S-1, S-2, and S-10, to a depth of approximately 1-foot bgs.
- Excavate soil from an area measuring approximately 551 square feet, encompassing S-3 through S-5, to a depth of approximately 2 feet bgs.
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride.

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Delineation Report and Remediation Plan
Chevron USA, Inc., Skeen 23 CTB
Produced Water Release
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- Backfill excavation with caliche verified clean by laboratory analysis for BTEX, TPH and chloride on the production pad assuming achievement of OCD remediation levels.
- Prepare report with photographs for submittal to OCD District II.

Figure 3 presents the proposed excavation areas.

Tables

Table 1
Soil Sample Analytical Data Summary
Skeen 23 CTB
Eddy County, New Mexico
North 32.021294°, West -104.257430°

Page 1 of 3

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100				600
S-1	0 - 0.5	4/1/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	5,460
	1	5/6/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	275
	3	5/6/2020	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	89.1
	5	5/6/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	111
S-2	0 - 0.5	4/1/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	11,600
	1	5/6/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	198
	3	5/6/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	80.5
	5	5/6/2020	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	38.7
S-3	0 - 0.5	4/1/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	3,560
	1	5/5/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	1,950
	3	5/5/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	117
	5	5/5/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	106
	8	5/5/2020	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	69.1
S-4	0 - 0.5	4/1/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	5,300
	1	5/5/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	3,170
	3	5/5/2020	In-Situ	0.00584	0.8330	<49.9	<49.9	<49.9	<49.9	219
	5	5/5/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	89.3
	6	5/5/2020	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	50.4
S-5	0 - 0.5	4/1/2020	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	9,460
	1	5/1/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	230
	5	5/1/2020	In-Situ	<0.0199	<0.00199	<50.0	<50.0	<50.0	<50.0	1,710

Table 1
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Skeen 23 CTB
Eddy County, New Mexico
North 32.021294°, West -104.257430°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100				600
	5	7/1/2020	In-Situ	--	--	--	--	--	--	106
	10	7/1/2020	In-Situ	--	--	--	--	--	--	96.5
	15	7/1/2020	In-Situ	--	--	--	--	--	--	151
	20	7/1/2020	In-Situ	--	--	--	--	--	--	187
S-6	0 - 0.5	4/1/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	380
	1	5/5/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	134
	3	5/5/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	72.3
	5	5/5/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	29.1
S-7	0 - 0.5	4/1/2020	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<5.02
	0.5 - 1	4/1/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<4.95
S-8	0 - 0.5	4/1/2020	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<4.99
	0.5 - 1	4/1/2020	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<4.97
S-9	0 - 0.5	4/1/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	170
	1	5/6/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	36.6
	3	5/6/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	27.9
	5	5/6/2020	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	20.3
S-10	0 - 0.5	4/1/2020	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	7,230
	1	5/1/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	191
	3	5/1/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	50.2
	5	5/1/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<5.00

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Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50	100				600

Notes: Analysis performed by Xenco Laboratories

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Figures

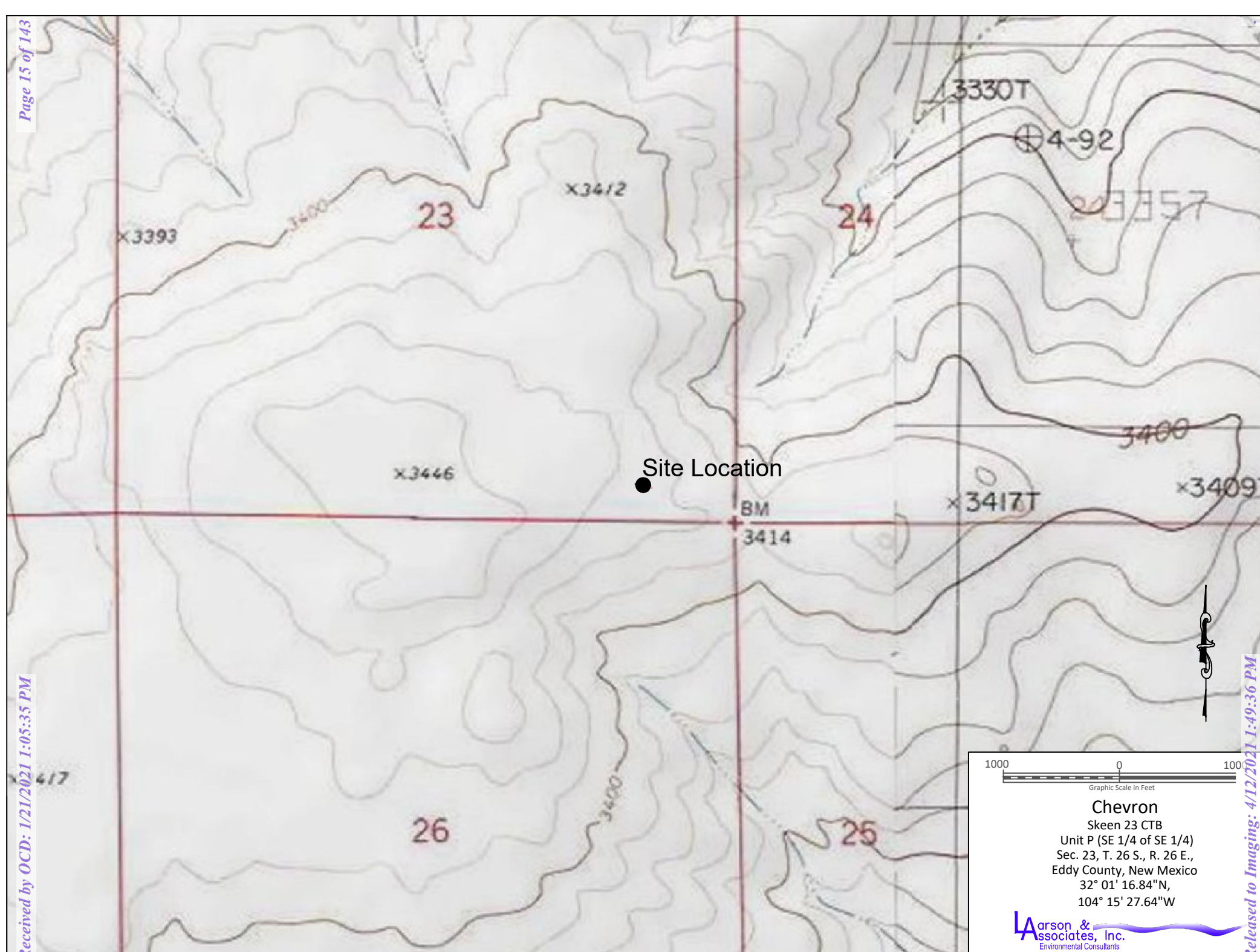


Figure 1 - Topographic Map

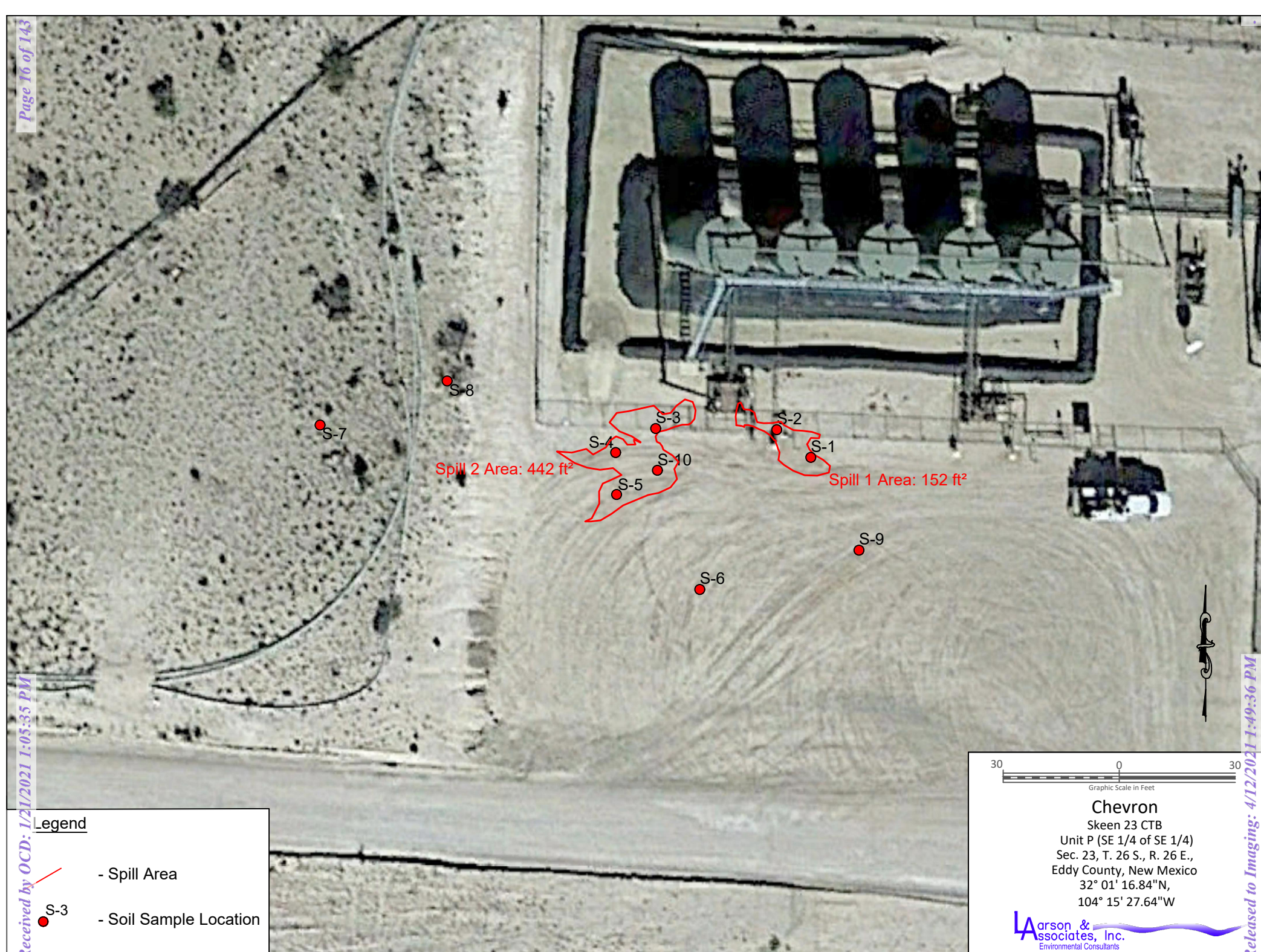


Figure 2 - Aerial Map

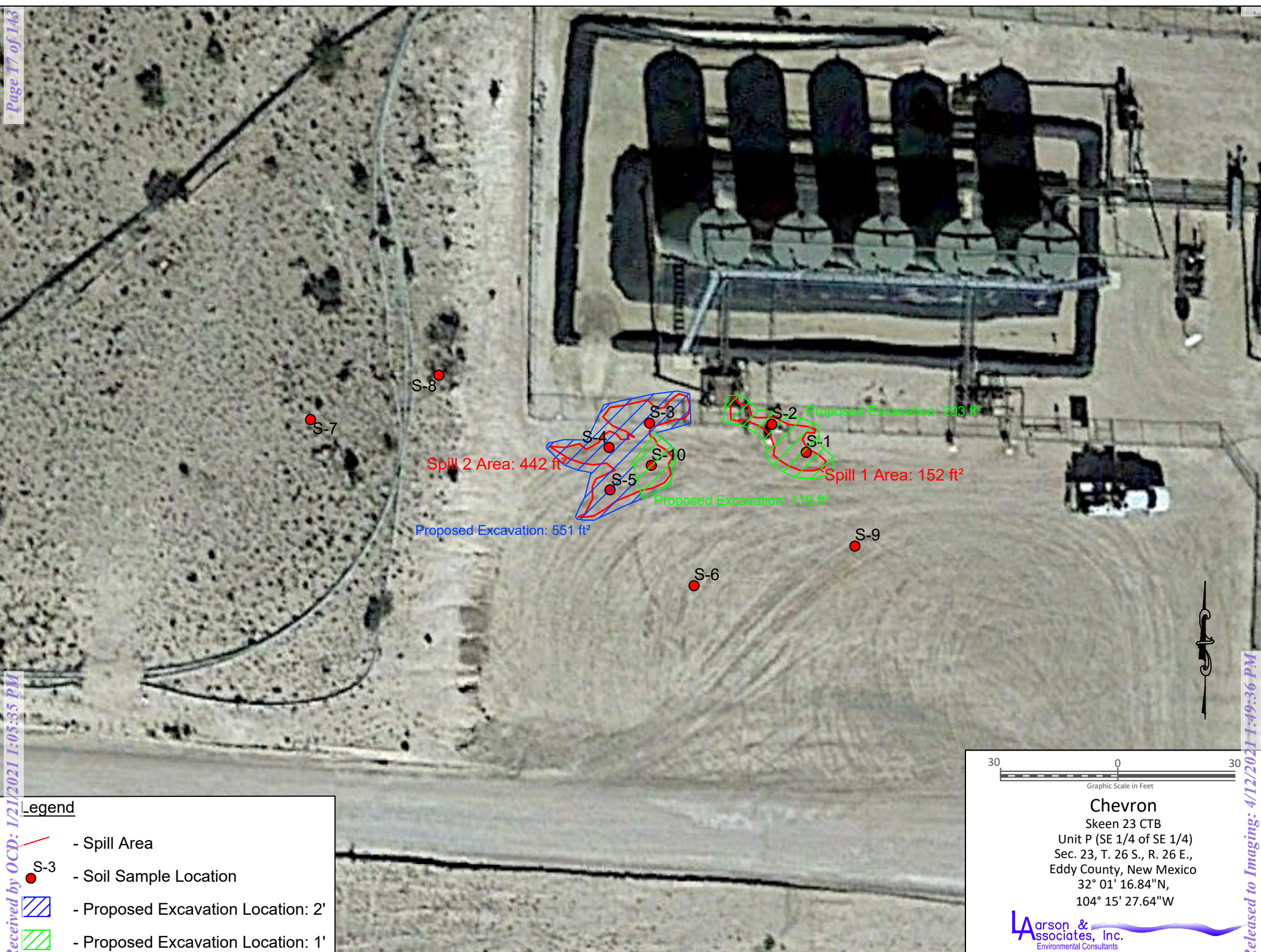


Figure 3 - Aerial Map Showing Proposed Excavation Locations

Appendix A
Chevron Spill Calculation

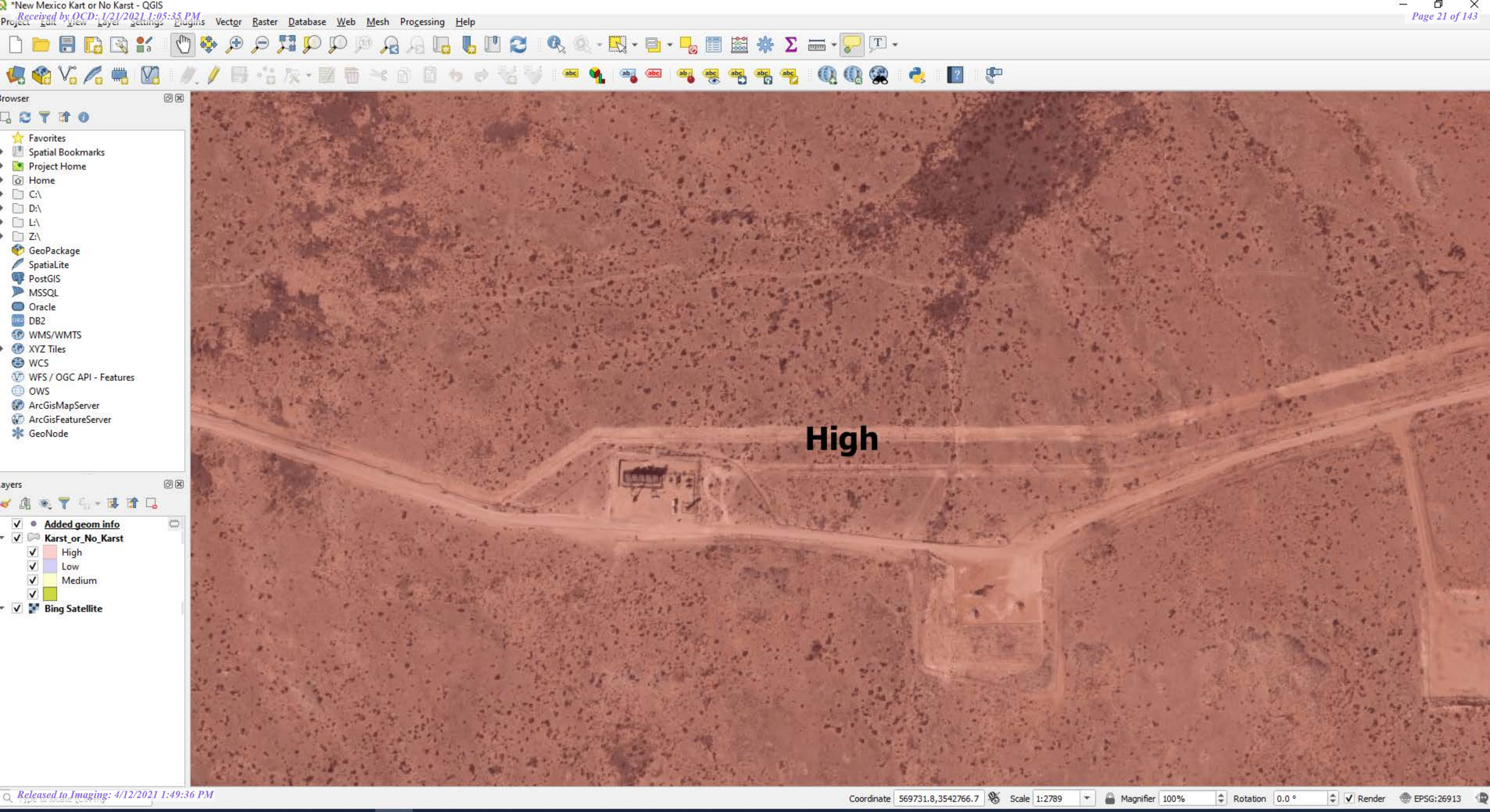
State of New Mexico
Oil Conservation Division

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Incident ID	
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Location			SKEEN 23 CTB		
Area	Standing Liquid	In Soil	size	Oil Volume	Water Volume
1	0.0208	0.06	23 x 13.5	0	1.15
2	0.0208	0.12	22.25 x 29	0	2.39
3	0.0208	0.04	12.6667 x 17.3333	0	0.81
4	0.0208	0.04	27.5000 x 8	0	0.82
5	0.0208	0.02	30 x 3	0	0.33
Total Fluid				0	5.5
Fluid Recovered			Oil Volume	Water Volume	
			0 Barrel	5 barrel	

Appendix B
Karst Risk Potential



Appendix C
Laboratory Reports



Certificate of Analysis Summary 657839

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Fri 04.03.2020 10:21

Report Date: 04.14.2020 10:05

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	657839-001	657839-002	657839-003	657839-004	657839-005	657839-006
	<i>Field Id:</i>	S-1 (0-0.5')	S-2 (0-0.5')	S-3 (0-0.5')	S-4 (0-0.5')	S-5 (0-0.5')	S-6 (0-0.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.01.2020 10:20	04.01.2020 10:24	04.01.2020 10:27	04.01.2020 10:35	04.01.2020 10:41	04.01.2020 10:51
BTEX by EPA 8021B	<i>Extracted:</i>	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00
	<i>Analyzed:</i>	04.12.2020 02:30	04.12.2020 02:51	04.12.2020 04:14	04.12.2020 04:35	04.12.2020 04:55	04.12.2020 05:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00399 0.00399	<0.00400 0.00400	<0.00400 0.00400	<0.00402 0.00402	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	04.03.2020 12:50	04.03.2020 13:45	04.03.2020 13:45	04.03.2020 13:45	04.03.2020 13:45	04.03.2020 13:45
	<i>Analyzed:</i>	04.03.2020 16:26	04.03.2020 19:51	04.03.2020 19:58	04.03.2020 20:05	04.03.2020 20:12	04.03.2020 20:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5460 99.6	11600 250	3560 99.2	5300 99.6	9460 100	380 50.4
TPH by SW8015 Mod	<i>Extracted:</i>	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00
	<i>Analyzed:</i>	04.05.2020 03:04	04.05.2020 04:02	04.05.2020 04:21	04.05.2020 04:40	04.05.2020 04:59	04.05.2020 05:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Certificate of Analysis Summary 657839

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Fri 04.03.2020 10:21

Report Date: 04.14.2020 10:05

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	657839-007	657839-008	657839-009	657839-010	657839-011	657839-012
	<i>Field Id:</i>	S-7 (0-0.5')	S-7 (0.5-1')	S-8 (0-0.5')	S-8 (0.5-1')	S-9 (0-0.5')	S-10 (0-0.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.01.2020 11:00	04.01.2020 11:02	04.01.2020 11:07	04.01.2020 11:10	04.01.2020 11:14	04.01.2020 11:21
BTEX by EPA 8021B	<i>Extracted:</i>	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00	04.10.2020 14:00
	<i>Analyzed:</i>	04.12.2020 05:36	04.12.2020 05:56	04.12.2020 06:17	04.12.2020 06:37	04.12.2020 06:58	04.12.2020 07:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00402 0.00402	<0.00404 0.00404	<0.00403 0.00403	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	04.06.2020 12:15	04.03.2020 15:00	04.03.2020 15:00	04.03.2020 15:00	04.03.2020 15:00	04.03.2020 15:00
	<i>Analyzed:</i>	04.06.2020 12:45	04.06.2020 08:51	04.06.2020 08:56	04.06.2020 09:02	04.03.2020 16:54	04.03.2020 17:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.02 5.02	<4.95 4.95	<4.99 4.99	<4.97 4.97	170 50.4	7230 99.8
TPH by SW8015 Mod	<i>Extracted:</i>	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00	04.04.2020 13:00
	<i>Analyzed:</i>	04.05.2020 05:37	04.05.2020 05:56	04.05.2020 06:15	04.05.2020 06:34	04.05.2020 06:53	04.05.2020 07:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Holly Taylor
Project Manager



Analytical Report 657839

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 23 CTB

20-0107-09

04.14.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



04.14.2020

Project Manager: **Mark Larson**

Larson and Associates, Inc.

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **657839**

Skeen 23 CTB

Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 657839. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 657839 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 657839****Larson and Associates, Inc., Midland, TX**

Skeen 23 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 (0-0.5')	S	04.01.2020 10:20		657839-001
S-2 (0-0.5')	S	04.01.2020 10:24		657839-002
S-3 (0-0.5')	S	04.01.2020 10:27		657839-003
S-4 (0-0.5')	S	04.01.2020 10:35		657839-004
S-5 (0-0.5')	S	04.01.2020 10:41		657839-005
S-6 (0-0.5')	S	04.01.2020 10:51		657839-006
S-7 (0-0.5')	S	04.01.2020 11:00		657839-007
S-7 (0.5-1')	S	04.01.2020 11:02		657839-008
S-8 (0-0.5')	S	04.01.2020 11:07		657839-009
S-8 (0.5-1')	S	04.01.2020 11:10		657839-010
S-9 (0-0.5')	S	04.01.2020 11:14		657839-011
S-10 (0-0.5')	S	04.01.2020 11:21		657839-012



CASE NARRATIVE

Client Name: *Larson and Associates, Inc.*

Project Name: *Skeen 23 CTB*

Project ID: 20-0107-09
Work Order Number(s): 657839

Report Date: 04.14.2020
Date Received: 04.03.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122854 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-1 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-001

Date Collected: 04.01.2020 10:20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 12:50

Basis: Wet Weight

Seq Number: 3121931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5460	99.6	mg/kg	04.03.2020 16:26		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.05.2020 03:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.05.2020 03:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.05.2020 03:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.05.2020 03:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	04.05.2020 03:04	
o-Terphenyl	84-15-1	82	%	70-130	04.05.2020 03:04	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-1 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-001

Date Collected: 04.01.2020 10:20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.12.2020 02:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.12.2020 02:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	04.12.2020 02:30		
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.12.2020 02:30		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-2 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-002

Date Collected: 04.01.2020 10:24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 13:45

Basis: Wet Weight

Seq Number: 3121970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11600	250	mg/kg	04.03.2020 19:51		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 04:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 04:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 04:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 04:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.05.2020 04:02	
o-Terphenyl	84-15-1	81	%	70-130	04.05.2020 04:02	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: **S-2 (0-0.5')**

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-002

Date Collected: 04.01.2020 10:24

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.12.2020 02:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.12.2020 02:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	04.12.2020 02:51		
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.12.2020 02:51		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-3 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-003

Date Collected: 04.01.2020 10:27

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 13:45

Basis: Wet Weight

Seq Number: 3121970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3560	99.2	mg/kg	04.03.2020 19:58		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.05.2020 04:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.05.2020 04:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.05.2020 04:21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.05.2020 04:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	04.05.2020 04:21	
o-Terphenyl	84-15-1	84	%	70-130	04.05.2020 04:21	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-3 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-003

Date Collected: 04.01.2020 10:27

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.12.2020 04:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.12.2020 04:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	04.12.2020 04:14		
1,4-Difluorobenzene	540-36-3	111	%	70-130	04.12.2020 04:14		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-4 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-004

Date Collected: 04.01.2020 10:35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 13:45

Basis: Wet Weight

Seq Number: 3121970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5300	99.6	mg/kg	04.03.2020 20:05		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.05.2020 04:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.05.2020 04:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.05.2020 04:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.05.2020 04:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.05.2020 04:40	
o-Terphenyl	84-15-1	81	%	70-130	04.05.2020 04:40	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: **S-4 (0-0.5')**

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-004

Date Collected: 04.01.2020 10:35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.12.2020 04:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.12.2020 04:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.12.2020 04:35		
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.12.2020 04:35		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-5 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-005

Date Collected: 04.01.2020 10:41

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 13:45

Basis: Wet Weight

Seq Number: 3121970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9460	100	mg/kg	04.03.2020 20:12		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 04:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 04:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 04:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 04:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	04.05.2020 04:59	
o-Terphenyl	84-15-1	90	%	70-130	04.05.2020 04:59	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-5 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-005

Date Collected: 04.01.2020 10:41

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.12.2020 04:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.12.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.12.2020 04:55	
4-Bromofluorobenzene	460-00-4	115	%	70-130	04.12.2020 04:55	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-6 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-006

Date Collected: 04.01.2020 10:51

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 13:45

Basis: Wet Weight

Seq Number: 3121970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	380	50.4	mg/kg	04.03.2020 20:18		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 05:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 05:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 05:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 05:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.05.2020 05:18	
o-Terphenyl	84-15-1	84	%	70-130	04.05.2020 05:18	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: **S-6 (0-0.5')**

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-006

Date Collected: 04.01.2020 10:51

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.12.2020 05:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.12.2020 05:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.12.2020 05:16		
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.12.2020 05:16		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-7 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-007

Date Collected: 04.01.2020 11:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.06.2020 12:15

Basis: Wet Weight

Seq Number: 3122127

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	04.06.2020 12:45	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.05.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.05.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.05.2020 05:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.05.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	04.05.2020 05:37	
o-Terphenyl	84-15-1	81	%	70-130	04.05.2020 05:37	



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-7 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-007

Date Collected: 04.01.2020 11:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.12.2020 05:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.12.2020 05:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.12.2020 05:36		
4-Bromofluorobenzene	460-00-4	122	%	70-130	04.12.2020 05:36		



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-7 (0.5-1')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-008

Date Collected: 04.01.2020 11:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 15:00

Basis: Wet Weight

Seq Number: 3121971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	04.06.2020 08:51	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 05:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 05:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 05:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 05:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	04.05.2020 05:56	
o-Terphenyl	84-15-1	82	%	70-130	04.05.2020 05:56	



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-7 (0.5-1')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-008

Date Collected: 04.01.2020 11:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.12.2020 05:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.12.2020 05:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.12.2020 05:56	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.12.2020 05:56	



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-8 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-009

Date Collected: 04.01.2020 11:07

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 15:00

Basis: Wet Weight

Seq Number: 3121971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	04.06.2020 08:56	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 06:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 06:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 06:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 06:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.05.2020 06:15	
o-Terphenyl	84-15-1	80	%	70-130	04.05.2020 06:15	



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: **S-8 (0-0.5')**

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-009

Date Collected: 04.01.2020 11:07

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.12.2020 06:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.12.2020 06:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.12.2020 06:17		
1,4-Difluorobenzene	540-36-3	113	%	70-130	04.12.2020 06:17		



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-8 (0.5-1')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-010

Date Collected: 04.01.2020 11:10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 15:00

Basis: Wet Weight

Seq Number: 3121971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	04.06.2020 09:02	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.05.2020 06:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.05.2020 06:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.05.2020 06:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.05.2020 06:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	04.05.2020 06:34	
o-Terphenyl	84-15-1	82	%	70-130	04.05.2020 06:34	



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-8 (0.5-1')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-010

Date Collected: 04.01.2020 11:10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.12.2020 06:37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.12.2020 06:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	04.12.2020 06:37		
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.12.2020 06:37		



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Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-9 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-011

Date Collected: 04.01.2020 11:14

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 15:00

Basis: Wet Weight

Seq Number: 3121971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	170	50.4	mg/kg	04.03.2020 16:54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.05.2020 06:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.05.2020 06:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.05.2020 06:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.05.2020 06:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	04.05.2020 06:53	
o-Terphenyl	84-15-1	88	%	70-130	04.05.2020 06:53	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-9 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-011

Date Collected: 04.01.2020 11:14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.12.2020 06:58	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.12.2020 06:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.12.2020 06:58		
4-Bromofluorobenzene	460-00-4	122	%	70-130	04.12.2020 06:58		



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: S-10 (0-0.5')

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-012

Date Collected: 04.01.2020 11:21

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.03.2020 15:00

Basis: Wet Weight

Seq Number: 3121971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7230	99.8	mg/kg	04.03.2020 17:09		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 04.04.2020 13:00

Basis: Wet Weight

Seq Number: 3122026

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.05.2020 07:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.05.2020 07:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.05.2020 07:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.05.2020 07:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	04.05.2020 07:12	
o-Terphenyl	84-15-1	81	%	70-130	04.05.2020 07:12	



Certificate of Analytical Results 657839

Larson and Associates, Inc., Midland, TX

Skeen 23 CTB

Sample Id: **S-10 (0-0.5')**

Matrix: Soil

Date Received: 04.03.2020 10:21

Lab Sample Id: 657839-012

Date Collected: 04.01.2020 11:21

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 04.10.2020 14:00

Basis: Wet Weight

Seq Number: 3122854

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.12.2020 07:18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.12.2020 07:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	04.12.2020 07:18		
4-Bromofluorobenzene	460-00-4	108	%	70-130	04.12.2020 07:18		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Larson and Associates, Inc.

Skeen 23 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

MB Sample Id: 7700473-1-BLK

Matrix: Solid

LCS Sample Id: 7700473-1-BKS

Prep Method: E300P

Date Prep: 04.03.2020

LCSD Sample Id: 7700473-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	04.03.2020 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3121970

MB Sample Id: 7700483-1-BLK

Matrix: Solid

LCS Sample Id: 7700483-1-BKS

Prep Method: E300P

Date Prep: 04.03.2020

LCSD Sample Id: 7700483-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	254	102	90-110	1	20	mg/kg	04.03.2020 17:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3121971

MB Sample Id: 7700500-1-BLK

Matrix: Solid

LCS Sample Id: 7700500-1-BKS

Prep Method: E300P

Date Prep: 04.03.2020

LCSD Sample Id: 7700500-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	243	97	90-110	2	20	mg/kg	04.03.2020 16:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3122127

MB Sample Id: 7700627-1-BLK

Matrix: Solid

LCS Sample Id: 7700627-1-BKS

Prep Method: E300P

Date Prep: 04.06.2020

LCSD Sample Id: 7700627-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	228	91	229	92	90-110	0	20	mg/kg	04.06.2020 12:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

Parent Sample Id: 657813-011

Matrix: Soil

MS Sample Id: 657813-011 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657813-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	72.5	252	336	105	337	105	90-110	0	20	mg/kg	04.03.2020 15:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3121931

Parent Sample Id: 657831-021

Matrix: Soil

MS Sample Id: 657831-021 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657831-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.2	252	327	107	325	106	90-110	1	20	mg/kg	04.03.2020 13:28	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Larson and Associates, Inc.

Skeen 23 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3121970

Parent Sample Id: 657838-001

Matrix: Soil

MS Sample Id: 657838-001 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657838-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	81.5	251	341	103	342	104	90-110	0	20	mg/kg	04.03.2020 17:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3121970

Parent Sample Id: 657838-011

Matrix: Soil

MS Sample Id: 657838-011 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657838-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	571	252	824	100	835	105	90-110	1	20	mg/kg	04.03.2020 19:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3121971

Parent Sample Id: 657840-001

Matrix: Soil

MS Sample Id: 657840-001 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657840-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.0	253	278	102	279	102	90-110	0	20	mg/kg	04.03.2020 16:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3121971

Parent Sample Id: 657840-006

Matrix: Soil

MS Sample Id: 657840-006 S

Prep Method: E300P

Date Prep: 04.03.2020

MSD Sample Id: 657840-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	832	250	1050	87	1050	87	90-110	0	20	mg/kg	04.03.2020 17:41	X

Analytical Method: Chloride by EPA 300

Seq Number: 3122127

Parent Sample Id: 657839-007

Matrix: Soil

MS Sample Id: 657839-007 S

Prep Method: E300P

Date Prep: 04.06.2020

MSD Sample Id: 657839-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	246	98	249	99	90-110	1	20	mg/kg	04.06.2020 12:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3122127

Parent Sample Id: 657960-002

Matrix: Soil

MS Sample Id: 657960-002 S

Prep Method: E300P

Date Prep: 04.06.2020

MSD Sample Id: 657960-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	101	253	344	96	344	96	90-110	0	20	mg/kg	04.06.2020 14:16	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Larson and Associates, Inc.
Skeen 23 CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3122026

MB Sample Id: 7700564-1-BLK

Matrix: Solid

LCS Sample Id: 7700564-1-BKS

Prep Method: SW8015P

Date Prep: 04.04.2020

LCSD Sample Id: 7700564-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	882	88	900	90	70-130	2	20	mg/kg	04.05.2020 01:26	
Diesel Range Organics (DRO)	<50.0	1000	941	94	956	96	70-130	2	20	mg/kg	04.05.2020 01:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		103		104		70-130	%	04.05.2020 01:26
o-Terphenyl	86		94		99		70-130	%	04.05.2020 01:26

Analytical Method: TPH by SW8015 Mod

Seq Number: 3122026

Matrix: Solid

MB Sample Id: 7700564-1-BLK

Prep Method: SW8015P

Date Prep: 04.04.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.05.2020 01:07	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3122026

Matrix: Soil

Parent Sample Id: 657839-001

MS Sample Id: 657839-001 S

Prep Method: SW8015P

Date Prep: 04.04.2020

MSD Sample Id: 657839-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	826	83	845	85	70-130	2	20	mg/kg	04.05.2020 03:24	
Diesel Range Organics (DRO)	<49.8	996	856	86	879	88	70-130	3	20	mg/kg	04.05.2020 03:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		94		70-130	%	04.05.2020 03:24
o-Terphenyl	85		90		70-130	%	04.05.2020 03:24

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122854

Matrix: Solid

MB Sample Id: 7701181-1-BLK

LCS Sample Id: 7701181-1-BKS

Prep Method: SW5030B

Date Prep: 04.10.2020

LCSD Sample Id: 7701181-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0943	94	0.0913	91	70-130	3	35	mg/kg	04.11.2020 21:24	
Toluene	<0.00200	0.100	0.0980	98	0.0995	100	70-130	2	35	mg/kg	04.11.2020 21:24	
Ethylbenzene	<0.00200	0.100	0.0953	95	0.0977	98	70-130	2	35	mg/kg	04.11.2020 21:24	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.198	99	70-130	3	35	mg/kg	04.11.2020 21:24	
o-Xylene	<0.00200	0.100	0.0992	99	0.102	102	70-130	3	35	mg/kg	04.11.2020 21:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		106		103		70-130	%	04.11.2020 21:24
4-Bromofluorobenzene	110		107		110		70-130	%	04.11.2020 21:24

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Larson and Associates, Inc.

Skeen 23 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3122854

Parent Sample Id: 657834-020

Matrix: Soil

MS Sample Id: 657834-020 S

Prep Method: SW5030B

Date Prep: 04.10.2020

MSD Sample Id: 657834-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0442	44	0.0394	39	70-130	11	35	mg/kg	04.11.2020 22:05	X
Toluene	<0.00200	0.100	0.0488	49	0.0458	46	70-130	6	35	mg/kg	04.11.2020 22:05	X
Ethylbenzene	<0.00200	0.100	0.0532	53	0.0521	52	70-130	2	35	mg/kg	04.11.2020 22:05	X
m,p-Xylenes	<0.00400	0.200	0.105	53	0.103	51	70-130	2	35	mg/kg	04.11.2020 22:05	X
o-Xylene	<0.00200	0.100	0.0503	50	0.0485	49	70-130	4	35	mg/kg	04.11.2020 22:05	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		105		70-130	%	04.11.2020 22:05
4-Bromofluorobenzene	116		113		70-130	%	04.11.2020 22:05

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

No 1132

Marson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 4/13/2020 PAGE 1 OF 1
PO#: _____ LAB WORK ORDER#: _____
PROJECT LOCATION OR NAME: Skene 23 CTB
LAI PROJECT #: 20-0107-09 COLLECTOR: RD

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

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

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESSERVED

ANALYSES

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

FIELD NOTES

S-1 (0-0.5')
S-2 (0-0.5')
S-3 (0-0.5')
S-4 (0-0.5')
S-5 (0-0.5')
S-6 (0-0.5')
S-7 (0-0.5')
S-8 (0-0.5')
S-9 (0-0.5')
S-10 (0-0.5')

4/13/20

10:20

S

1

X

X

X

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X

X

X

TOTAL

RELINQUISHED BY: (Signature)
Deborah Owen

DATE/TIME
4-3-20/10:21
RECEIVED BY: (Signature)
[Signature]

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: XCNCO

TURN AROUND TIME

NORMAL ☐1 DAY ☐2 DAY ☐OTHER ☒ 50 days

LABORATORY USE ONLY:

RECEIVING TEMP: 3.0 THERM#: R-8CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL # _____

HAND DELIVERED ☒

CHAIN-OF-CUSTODY

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 04.03.2020 10.21.00 AM

Work Order #: 657839

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 04.03.2020

Checklist reviewed by:



Holly Taylor

Date: 04.06.2020



Certificate of Analysis Summary 660830

Larson and Associates, Inc., Midland, TX

Project Name: Chevron-Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 05.07.2020 09:02

Report Date: 05.14.2020 09:07

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	660830-001	660830-002	660830-003	660830-004	660830-006	660830-007
	<i>Field Id:</i>	S-10 (1')	S-10 (3')	S-10 (5')	S-5 (1')	S-5 (5')	S-4 (1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.01.2020 12:20	05.01.2020 12:21	05.01.2020 12:22	05.01.2020 12:35	05.01.2020 12:37	05.05.2020 12:09
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00
	<i>Analyzed:</i>	05.12.2020 11:14	05.12.2020 15:41	05.12.2020 16:01	05.12.2020 16:21	05.12.2020 16:42	05.12.2020 17:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00398 0.00398	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 15:30
	<i>Analyzed:</i>	05.07.2020 18:00	05.07.2020 18:06	05.08.2020 08:35	05.07.2020 18:34	05.07.2020 18:41	05.08.2020 08:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		191 50.4	50.2 49.8	<5.00 5.00	230 50.4	1710 49.9	3170 100
TPH by SW8015 Mod	<i>Extracted:</i>	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00
	<i>Analyzed:</i>	05.07.2020 12:24	05.07.2020 13:28	05.07.2020 13:49	05.07.2020 14:11	05.07.2020 14:32	05.07.2020 14:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0

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Holly Taylor
Project Manager



Certificate of Analysis Summary 660830

Larson and Associates, Inc., Midland, TX

Project Name: Chevron-Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 05.07.2020 09:02

Report Date: 05.14.2020 09:07

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	660830-008	660830-009	660830-010	660830-011	660830-012	660830-013
	<i>Field Id:</i>	S-4(3')	S-4 (5')	S-4 (6')	S-3 (1')	S-3 (3')	S-3 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.05.2020 12:10	05.05.2020 12:11	05.05.2020 12:28	05.05.2020 12:58	05.05.2020 12:59	05.05.2020 13:00
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 08:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00
	<i>Analyzed:</i>	05.12.2020 14:18	05.12.2020 17:43	05.12.2020 18:04	05.12.2020 21:49	05.12.2020 22:09	05.12.2020 22:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00584 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Toluene		0.171 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		0.361 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		0.200 0.00398	<0.00403 0.00403	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400
o-Xylene		0.0953 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		0.295 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		0.833 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 15:30	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10
	<i>Analyzed:</i>	05.07.2020 18:54	05.07.2020 19:01	05.07.2020 19:08	05.07.2020 20:10	05.07.2020 20:16	05.07.2020 20:23
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		219 50.5	89.3 50.5	50.4 50.0	1950 49.6	117 49.7	106 50.2
TPH by SW8015 Mod	<i>Extracted:</i>	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00
	<i>Analyzed:</i>	05.07.2020 15:15	05.07.2020 15:37	05.07.2020 15:58	05.07.2020 16:19	05.07.2020 17:03	05.07.2020 17:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9

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Holly Taylor
Project Manager



Certificate of Analysis Summary 660830

Larson and Associates, Inc., Midland, TX

Project Name: Chevron-Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 05.07.2020 09:02

Report Date: 05.14.2020 09:07

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	660830-014	660830-015	660830-016	660830-017	660830-018	660830-019
	<i>Field Id:</i>	S-3 (8')	S-6 (1')	S-6 (3')	S-6 (5')	S-1 (1')	S-1 (3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.05.2020 13:04	05.05.2020 13:17	05.05.2020 13:18	05.05.2020 13:19	05.06.2020 09:54	05.06.2020 09:55
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00
	<i>Analyzed:</i>	05.12.2020 22:50	05.12.2020 23:11	05.12.2020 23:31	05.12.2020 23:52	05.13.2020 00:12	05.13.2020 00:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00400 0.00400	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10
	<i>Analyzed:</i>	05.07.2020 20:30	05.07.2020 20:51	05.07.2020 20:58	05.08.2020 08:56	05.07.2020 21:11	05.07.2020 21:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		69.1 49.5	134 50.4	72.3 49.9	29.1 4.97	275 50.3	89.1 49.7
TPH by SW8015 Mod	<i>Extracted:</i>	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00
	<i>Analyzed:</i>	05.07.2020 17:46	05.07.2020 18:07	05.07.2020 18:28	05.07.2020 18:50	05.07.2020 19:11	05.07.2020 19:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8

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Holly Taylor
Project Manager



Certificate of Analysis Summary 660830

Larson and Associates, Inc., Midland, TX

Project Name: Chevron-Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 05.07.2020 09:02

Report Date: 05.14.2020 09:07

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	660830-020	660830-021	660830-022	660830-023	660830-024	660830-025
	<i>Field Id:</i>	S-1 (5')	S-2 (1')	S-2 (3')	S-2 (5')	S-9 (1')	S-9 (3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.06.2020 09:56	05.06.2020 09:44	05.06.2020 09:45	05.06.2020 09:46	05.06.2020 10:30	05.06.2020 10:31
BTEX by EPA 8021B	<i>Extracted:</i>	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00
	<i>Analyzed:</i>	05.13.2020 00:53	05.13.2020 02:16	05.13.2020 02:37	05.13.2020 02:57	05.13.2020 03:17	05.13.2020 03:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00399 0.00399	<0.00399 0.00399	<0.00397 0.00397	<0.00400 0.00400	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10	05.07.2020 16:10
	<i>Analyzed:</i>	05.07.2020 21:45	05.07.2020 21:52	05.07.2020 22:13	05.08.2020 09:03	05.08.2020 09:09	05.08.2020 09:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		111 50.3	198 50.0	80.5 50.0	38.7 5.00	36.6 5.05	27.9 5.01
TPH by SW8015 Mod	<i>Extracted:</i>	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00	05.07.2020 12:00
	<i>Analyzed:</i>	05.07.2020 19:54	05.07.2020 19:40	05.07.2020 18:43	05.07.2020 19:59	05.07.2020 20:18	05.07.2020 20:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9

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Holly Taylor
Project Manager



Certificate of Analysis Summary 660830

Larson and Associates, Inc., Midland, TX

Project Name: Chevron-Skeen 23 CTB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 05.07.2020 09:02

Report Date: 05.14.2020 09:07

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	660830-026					
	Field Id:	S-9 (5')					
	Depth:						
	Matrix:	SOIL					
	Sampled:	05.06.2020 10:32					
BTEX by EPA 8021B	Extracted:	05.12.2020 17:00					
	Analyzed:	05.13.2020 03:58					
	Units/RL:	mg/kg RL					
Benzene		<0.00198 0.00198					
Toluene		<0.00198 0.00198					
Ethylbenzene		<0.00198 0.00198					
m,p-Xylenes		<0.00396 0.00396					
o-Xylene		<0.00198 0.00198					
Total Xylenes		<0.00198 0.00198					
Total BTEX		<0.00198 0.00198					
Chloride by EPA 300	Extracted:	05.07.2020 16:10					
	Analyzed:	05.08.2020 09:23					
	Units/RL:	mg/kg RL					
Chloride		20.3 4.96					
TPH by SW8015 Mod	Extracted:	05.07.2020 12:00					
	Analyzed:	05.07.2020 20:55					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0					
Diesel Range Organics (DRO)		<50.0 50.0					
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0					
Total TPH		<50.0 50.0					

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Holly Taylor
Project Manager



Analytical Report 660830

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron-Skeen 23 CTB

20-0107-09

05.14.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.14.2020

Project Manager: **Mark Larson**

Larson and Associates, Inc.

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **660830**

Chevron-Skeen 23 CTB

Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660830. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 660830 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'. The signature is written in a cursive, flowing style.

Holly Taylor
Project Manager

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Sample Cross Reference 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-10 (1')	S	05.01.2020 12:20		660830-001
S-10 (3')	S	05.01.2020 12:21		660830-002
S-10 (5')	S	05.01.2020 12:22		660830-003
S-5 (1')	S	05.01.2020 12:35		660830-004
S-5 (5')	S	05.01.2020 12:37		660830-006
S-4 (1')	S	05.05.2020 12:09		660830-007
S-4(3')	S	05.05.2020 12:10		660830-008
S-4 (5')	S	05.05.2020 12:11		660830-009
S-4 (6')	S	05.05.2020 12:28		660830-010
S-3 (1')	S	05.05.2020 12:58		660830-011
S-3 (3')	S	05.05.2020 12:59		660830-012
S-3 (5')	S	05.05.2020 13:00		660830-013
S-3 (8')	S	05.05.2020 13:04		660830-014
S-6 (1')	S	05.05.2020 13:17		660830-015
S-6 (3')	S	05.05.2020 13:18		660830-016
S-6 (5')	S	05.05.2020 13:19		660830-017
S-1 (1')	S	05.06.2020 09:54		660830-018
S-1 (3')	S	05.06.2020 09:55		660830-019
S-1 (5')	S	05.06.2020 09:56		660830-020
S-2 (1')	S	05.06.2020 09:44		660830-021
S-2 (3')	S	05.06.2020 09:45		660830-022
S-2 (5')	S	05.06.2020 09:46		660830-023
S-9 (1')	S	05.06.2020 10:30		660830-024
S-9 (3')	S	05.06.2020 10:31		660830-025
S-9 (5')	S	05.06.2020 10:32		660830-026
S-5 (3')	S	05.01.2020 12:36		Not Analyzed

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Chevron-Skeen 23 CTB**Project ID: 20-0107-09
Work Order Number(s): 660830Report Date: 05.14.2020
Date Received: 05.07.2020

Sample receipt non conformances and comments:

5/11/2020 Sample 005 not analyzed as the lab received an empty container. Client notified by email. HT

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3125677 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 660830-008.

Lab Sample ID 660830-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 660830-001, -008.

The Laboratory Control Sample for Toluene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (1')**
Lab Sample Id: 660830-001

Matrix: Soil
Date Collected: 05.01.2020 12:20

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	191	50.4	mg/kg	05.07.2020 18:00		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 12:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 12:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 12:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 12:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	05.07.2020 12:24	
o-Terphenyl	84-15-1	102	%	70-130	05.07.2020 12:24	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (1')**
Lab Sample Id: 660830-001

Matrix: Soil
Date Collected: 05.01.2020 12:20

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 11:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 11:14	UX	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 11:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 11:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 11:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 11:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 11:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.12.2020 11:14		
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.12.2020 11:14		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (3')**

Matrix: Soil

Date Received: 05.07.2020 09:02

Lab Sample Id: 660830-002

Date Collected: 05.01.2020 12:21

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.2	49.8	mg/kg	05.07.2020 18:06		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 13:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 13:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 13:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 13:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.07.2020 13:28	
o-Terphenyl	84-15-1	102	%	70-130	05.07.2020 13:28	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (3')**

Matrix: **Soil**

Date Received: 05.07.2020 09:02

Lab Sample Id: 660830-002

Date Collected: 05.01.2020 12:21

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.12.2020 08:00

Basis: **Wet Weight**

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 15:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 15:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.12.2020 15:41		
4-Bromofluorobenzene	460-00-4	94	%	70-130	05.12.2020 15:41		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (5')**

Matrix: Soil

Date Received: 05.07.2020 09:02

Lab Sample Id: 660830-003

Date Collected: 05.01.2020 12:22

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	05.08.2020 08:35	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 13:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 13:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 13:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 13:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	05.07.2020 13:49	
o-Terphenyl	84-15-1	100	%	70-130	05.07.2020 13:49	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-10 (5')**
Lab Sample Id: 660830-003

Matrix: **Soil**
Date Collected: 05.01.2020 12:22

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.12.2020 08:00

Basis: **Wet Weight**

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.12.2020 16:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 16:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 16:01		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.12.2020 16:01		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-5 (1')
Lab Sample Id: 660830-004

Matrix: Soil
Date Collected: 05.01.2020 12:35

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	230	50.4	mg/kg	05.07.2020 18:34		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 14:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 14:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 14:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 14:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.07.2020 14:11	
o-Terphenyl	84-15-1	101	%	70-130	05.07.2020 14:11	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-5 (1')
Lab Sample Id: 660830-004

Matrix: Soil
Date Collected: 05.01.2020 12:35

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.12.2020 16:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 16:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 16:21	
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.12.2020 16:21	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-5 (5')
Lab Sample Id: 660830-006

Matrix: Soil
Date Collected: 05.01.2020 12:37

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1710	49.9	mg/kg	05.07.2020 18:41		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 14:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 14:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 14:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 14:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.07.2020 14:32	
o-Terphenyl	84-15-1	99	%	70-130	05.07.2020 14:32	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-5 (5')
Lab Sample Id: 660830-006

Matrix: Soil
Date Collected: 05.01.2020 12:37

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 16:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 16:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 16:42		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 16:42		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-4 (1')**
Lab Sample Id: 660830-007

Matrix: Soil
Date Collected: 05.05.2020 12:09

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3170	100	mg/kg	05.08.2020 08:42		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 14:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 14:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 14:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 14:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.07.2020 14:54	
o-Terphenyl	84-15-1	100	%	70-130	05.07.2020 14:54	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-4 (1')**
Lab Sample Id: 660830-007

Matrix: Soil
Date Collected: 05.05.2020 12:09

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 17:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 17:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.12.2020 17:02		
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.12.2020 17:02		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-4(3')
Lab Sample Id: 660830-008

Matrix: Soil
Date Collected: 05.05.2020 12:10

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	219	50.5	mg/kg	05.07.2020 18:54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 15:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 15:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 15:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 15:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.07.2020 15:15	
o-Terphenyl	84-15-1	100	%	70-130	05.07.2020 15:15	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-4(3')**
Lab Sample Id: 660830-008

Matrix: Soil
Date Collected: 05.05.2020 12:10

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00584	0.00199	mg/kg	05.12.2020 14:18		1
Toluene	108-88-3	0.171	0.00199	mg/kg	05.12.2020 14:18		1
Ethylbenzene	100-41-4	0.361	0.00199	mg/kg	05.12.2020 14:18		1
m,p-Xylenes	179601-23-1	0.200	0.00398	mg/kg	05.12.2020 14:18		1
o-Xylene	95-47-6	0.0953	0.00199	mg/kg	05.12.2020 14:18		1
Total Xylenes	1330-20-7	0.295	0.00199	mg/kg	05.12.2020 14:18		1
Total BTEX		0.833	0.00199	mg/kg	05.12.2020 14:18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	138	%	70-130	05.12.2020 14:18	**	
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.12.2020 14:18		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-4 (5')
Lab Sample Id: 660830-009

Matrix: Soil
Date Collected: 05.05.2020 12:11

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.3	50.5	mg/kg	05.07.2020 19:01		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 15:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 15:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 15:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 15:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.07.2020 15:37	
o-Terphenyl	84-15-1	95	%	70-130	05.07.2020 15:37	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-4 (5')
Lab Sample Id: 660830-009

Matrix: Soil
Date Collected: 05.05.2020 12:11

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.12.2020 17:43	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.12.2020 17:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 17:43		
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 17:43		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-4 (6')
Lab Sample Id: 660830-010

Matrix: Soil
Date Collected: 05.05.2020 12:28

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 15:30

Basis: Wet Weight

Seq Number: 3125409

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.4	50.0	mg/kg	05.07.2020 19:08		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.07.2020 15:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.07.2020 15:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.07.2020 15:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.07.2020 15:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	05.07.2020 15:58	
o-Terphenyl	84-15-1	92	%	70-130	05.07.2020 15:58	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-4 (6')**
Lab Sample Id: 660830-010

Matrix: Soil
Date Collected: 05.05.2020 12:28

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 08:00

Basis: Wet Weight

Seq Number: 3125677

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 18:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 18:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.12.2020 18:04		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 18:04		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-3 (1')**
Lab Sample Id: 660830-011

Matrix: Soil
Date Collected: 05.05.2020 12:58

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1950	49.6	mg/kg	05.07.2020 20:10		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 16:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	05.07.2020 16:19	
o-Terphenyl	84-15-1	103	%	70-130	05.07.2020 16:19	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-3 (1')**
Lab Sample Id: 660830-011

Matrix: **Soil**
Date Collected: 05.05.2020 12:58

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.12.2020 17:00

Basis: **Wet Weight**

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 21:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 21:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.12.2020 21:49		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.12.2020 21:49		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-3 (3')
Lab Sample Id: 660830-012

Matrix: Soil
Date Collected: 05.05.2020 12:59

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	117	49.7	mg/kg	05.07.2020 20:16		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 17:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 17:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 17:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 17:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.07.2020 17:03	
o-Terphenyl	84-15-1	112	%	70-130	05.07.2020 17:03	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-3 (3')
Lab Sample Id: 660830-012

Matrix: Soil
Date Collected: 05.05.2020 12:59

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 22:09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 22:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 22:09	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.12.2020 22:09	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-3 (5')
Lab Sample Id: 660830-013

Matrix: Soil
Date Collected: 05.05.2020 13:00

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	50.2	mg/kg	05.07.2020 20:23		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 17:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 17:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 17:24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 17:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.07.2020 17:24	
o-Terphenyl	84-15-1	103	%	70-130	05.07.2020 17:24	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-3 (5')
Lab Sample Id: 660830-013

Matrix: Soil
Date Collected: 05.05.2020 13:00

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 22:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 22:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.12.2020 22:30		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 22:30		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-3 (8')**
Lab Sample Id: 660830-014

Matrix: Soil
Date Collected: 05.05.2020 13:04

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.1	49.5	mg/kg	05.07.2020 20:30		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 17:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 17:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 17:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 17:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.07.2020 17:46	
o-Terphenyl	84-15-1	99	%	70-130	05.07.2020 17:46	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-3 (8')**
Lab Sample Id: 660830-014

Matrix: Soil
Date Collected: 05.05.2020 13:04

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.12.2020 22:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.12.2020 22:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 22:50		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.12.2020 22:50		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-6 (1')
Lab Sample Id: 660830-015

Matrix: Soil
Date Collected: 05.05.2020 13:17

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	50.4	mg/kg	05.07.2020 20:51		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 18:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 18:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 18:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 18:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	05.07.2020 18:07	
o-Terphenyl	84-15-1	105	%	70-130	05.07.2020 18:07	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-6 (1')**
Lab Sample Id: 660830-015

Matrix: Soil
Date Collected: 05.05.2020 13:17

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 23:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 23:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.12.2020 23:11		
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.12.2020 23:11		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-6 (3')
Lab Sample Id: 660830-016

Matrix: Soil
Date Collected: 05.05.2020 13:18

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.3	49.9	mg/kg	05.07.2020 20:58		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 18:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 18:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 18:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 18:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	05.07.2020 18:28	
o-Terphenyl	84-15-1	104	%	70-130	05.07.2020 18:28	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-6 (3')**
Lab Sample Id: 660830-016

Matrix: **Soil**
Date Collected: 05.05.2020 13:18

Date Received: 05.07.2020 09:02

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.12.2020 17:00**

Basis: **Wet Weight**

Seq Number: **3125729**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.12.2020 23:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.12.2020 23:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	05.12.2020 23:31		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 23:31		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-6 (5')
Lab Sample Id: 660830-017

Matrix: Soil
Date Collected: 05.05.2020 13:19

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.1	4.97	mg/kg	05.08.2020 08:56		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 18:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 18:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 18:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 18:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	05.07.2020 18:50	
o-Terphenyl	84-15-1	101	%	70-130	05.07.2020 18:50	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-6 (5')**
Lab Sample Id: 660830-017

Matrix: **Soil**
Date Collected: 05.05.2020 13:19

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.12.2020 17:00

Basis: **Wet Weight**

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.12.2020 23:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 23:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.12.2020 23:52		
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.12.2020 23:52		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-1 (1')
Lab Sample Id: 660830-018

Matrix: Soil
Date Collected: 05.06.2020 09:54

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	275	50.3	mg/kg	05.07.2020 21:11		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 19:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 19:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 19:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 19:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	05.07.2020 19:11	
o-Terphenyl	84-15-1	103	%	70-130	05.07.2020 19:11	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-1 (1')**
Lab Sample Id: 660830-018

Matrix: **Soil**
Date Collected: 05.06.2020 09:54

Date Received: 05.07.2020 09:02

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.12.2020 17:00**

Basis: **Wet Weight**

Seq Number: **3125729**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.13.2020 00:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 00:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	05.13.2020 00:12		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.13.2020 00:12		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-1 (3')
Lab Sample Id: 660830-019

Matrix: Soil
Date Collected: 05.06.2020 09:55

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.1	49.7	mg/kg	05.07.2020 21:18		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125393

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.07.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.07.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.07.2020 19:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.07.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	05.07.2020 19:32	
o-Terphenyl	84-15-1	105	%	70-130	05.07.2020 19:32	



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-1 (3')
Lab Sample Id: 660830-019

Matrix: Soil
Date Collected: 05.06.2020 09:55

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.13.2020 00:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 00:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.13.2020 00:32		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.13.2020 00:32		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-1 (5')
Lab Sample Id: 660830-020

Matrix: Soil
Date Collected: 05.06.2020 09:56

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3125406

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 05.07.2020 16:10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	50.3	mg/kg	05.07.2020 21:45		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3125393

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 05.07.2020 12:00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 19:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 19:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 19:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	05.07.2020 19:54	
o-Terphenyl	84-15-1	103	%	70-130	05.07.2020 19:54	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-1 (5')
Lab Sample Id: 660830-020

Matrix: Soil
Date Collected: 05.06.2020 09:56

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.13.2020 00:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 00:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.13.2020 00:53		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.13.2020 00:53		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (1')
Lab Sample Id: 660830-021

Matrix: Soil
Date Collected: 05.06.2020 09:44

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	198	50.0	mg/kg	05.07.2020 21:52		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 19:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 19:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 19:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 19:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.07.2020 19:40	
o-Terphenyl	84-15-1	78	%	70-130	05.07.2020 19:40	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (1')
Lab Sample Id: 660830-021

Matrix: Soil
Date Collected: 05.06.2020 09:44

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.13.2020 02:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 02:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.13.2020 02:16		
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.13.2020 02:16		



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Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (3')
Lab Sample Id: 660830-022

Matrix: Soil
Date Collected: 05.06.2020 09:45

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	80.5	50.0	mg/kg	05.07.2020 22:13		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 18:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 18:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 18:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 18:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	05.07.2020 18:43	
o-Terphenyl	84-15-1	79	%	70-130	05.07.2020 18:43	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (3')
Lab Sample Id: 660830-022

Matrix: Soil
Date Collected: 05.06.2020 09:45

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.13.2020 02:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 02:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.13.2020 02:37		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.13.2020 02:37		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (5')
Lab Sample Id: 660830-023

Matrix: Soil
Date Collected: 05.06.2020 09:46

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.7	5.00	mg/kg	05.08.2020 09:03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.07.2020 19:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.07.2020 19:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.07.2020 19:59	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.07.2020 19:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.07.2020 19:59	
o-Terphenyl	84-15-1	75	%	70-130	05.07.2020 19:59	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-2 (5')
Lab Sample Id: 660830-023

Matrix: Soil
Date Collected: 05.06.2020 09:46

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.13.2020 02:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.13.2020 02:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.13.2020 02:57		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.13.2020 02:57		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-9 (1')
Lab Sample Id: 660830-024

Matrix: Soil
Date Collected: 05.06.2020 10:30

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.6	5.05	mg/kg	05.08.2020 09:09		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 20:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 20:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 20:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 20:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.07.2020 20:18	
o-Terphenyl	84-15-1	80	%	70-130	05.07.2020 20:18	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-9 (1')**
Lab Sample Id: 660830-024

Matrix: Soil
Date Collected: 05.06.2020 10:30

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.13.2020 03:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 03:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.13.2020 03:17		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.13.2020 03:17		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-9 (3')**
Lab Sample Id: 660830-025

Matrix: Soil
Date Collected: 05.06.2020 10:31

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3125406

Prep Method: E300P

% Moisture:

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.9	5.01	mg/kg	05.08.2020 09:16		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3125391

Prep Method: SW8015P

% Moisture:

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.07.2020 20:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.07.2020 20:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.07.2020 20:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.07.2020 20:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.07.2020 20:36	
o-Terphenyl	84-15-1	81	%	70-130	05.07.2020 20:36	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: **S-9 (3')**
Lab Sample Id: 660830-025

Matrix: Soil
Date Collected: 05.06.2020 10:31

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.13.2020 03:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.13.2020 03:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	05.13.2020 03:38		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.13.2020 03:38		



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-9 (5')
Lab Sample Id: 660830-026

Matrix: Soil
Date Collected: 05.06.2020 10:32

Date Received: 05.07.2020 09:02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.07.2020 16:10

Basis: Wet Weight

Seq Number: 3125406

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.3	4.96	mg/kg	05.08.2020 09:23		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.07.2020 12:00

Basis: Wet Weight

Seq Number: 3125391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.07.2020 20:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.07.2020 20:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.07.2020 20:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.07.2020 20:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.07.2020 20:55	
o-Terphenyl	84-15-1	80	%	70-130	05.07.2020 20:55	



Certificate of Analytical Results 660830

Larson and Associates, Inc., Midland, TX

Chevron-Skeen 23 CTB

Sample Id: S-9 (5')
Lab Sample Id: 660830-026

Matrix: Soil
Date Collected: 05.06.2020 10:32

Date Received: 05.07.2020 09:02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.12.2020 17:00

Basis: Wet Weight

Seq Number: 3125729

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.13.2020 03:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.13.2020 03:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.13.2020 03:58		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.13.2020 03:58		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Larson and Associates, Inc.
Chevron-Skeen 23 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3125409

MB Sample Id: 7702925-1-BLK

Matrix: Solid

LCS Sample Id: 7702925-1-BKS

Prep Method: E300P

Date Prep: 05.07.2020

LCSD Sample Id: 7702925-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	261	104	90-110	0	20	mg/kg	05.07.2020 15:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3125406

MB Sample Id: 7702927-1-BLK

Matrix: Solid

LCS Sample Id: 7702927-1-BKS

Prep Method: E300P

Date Prep: 05.07.2020

LCSD Sample Id: 7702927-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	264	106	90-110	0	20	mg/kg	05.07.2020 19:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3125409

Parent Sample Id: 660750-002

Matrix: Soil

MS Sample Id: 660750-002 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660750-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	965	1260	2380	112	2350	110	90-110	1	20	mg/kg	05.07.2020 17:46	X

Analytical Method: Chloride by EPA 300

Seq Number: 3125409

Parent Sample Id: 660828-003

Matrix: Soil

MS Sample Id: 660828-003 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660828-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	193	252	475	112	466	108	90-110	2	20	mg/kg	05.07.2020 16:10	X

Analytical Method: Chloride by EPA 300

Seq Number: 3125406

Parent Sample Id: 660891-003

Matrix: Soil

MS Sample Id: 660891-003 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660891-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1700	1250	3060	109	3040	107	90-110	1	20	mg/kg	05.07.2020 21:32	

Analytical Method: Chloride by EPA 300

Seq Number: 3125406

Parent Sample Id: 660904-003

Matrix: Soil

MS Sample Id: 660904-003 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660904-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2240	1260	3610	109	3600	108	90-110	0	20	mg/kg	05.07.2020 19:56	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Larson and Associates, Inc.
Chevron-Skeen 23 CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125391

MB Sample Id: 7702930-1-BLK

Matrix: Solid

LCS Sample Id: 7702930-1-BKS

Prep Method: SW8015P

Date Prep: 05.07.2020

LCSD Sample Id: 7702930-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	981	98	70-130	9	20	mg/kg	05.08.2020 07:03	
Diesel Range Organics (DRO)	<50.0	1000	1180	118	1110	111	70-130	6	20	mg/kg	05.08.2020 07:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		110		100		70-130	%	05.08.2020 07:03
o-Terphenyl	90		99		91		70-130	%	05.08.2020 07:03

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125393

MB Sample Id: 7702928-1-BLK

Matrix: Solid

LCS Sample Id: 7702928-1-BKS

Prep Method: SW8015P

Date Prep: 05.07.2020

LCSD Sample Id: 7702928-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	966	97	975	98	70-130	1	20	mg/kg	05.07.2020 11:42	
Diesel Range Organics (DRO)	<50.0	1000	998	100	973	97	70-130	3	20	mg/kg	05.07.2020 11:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		97		97		70-130	%	05.07.2020 11:42
o-Terphenyl	103		96		96		70-130	%	05.07.2020 11:42

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125391

Matrix: Solid

MB Sample Id: 7702930-1-BLK

Prep Method: SW8015P

Date Prep: 05.07.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.07.2020 17:45	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125393

Matrix: Solid

MB Sample Id: 7702928-1-BLK

Prep Method: SW8015P

Date Prep: 05.07.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.07.2020 11:21	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Larson and Associates, Inc.
Chevron-Skeen 23 CTB

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125391

Parent Sample Id: 660830-022

Matrix: Soil

MS Sample Id: 660830-022 S

Prep Method: SW8015P

Date Prep: 05.07.2020

MSD Sample Id: 660830-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	856	86	885	89	70-130	3	20	mg/kg	05.07.2020 19:02	
Diesel Range Organics (DRO)	<49.9	997	863	87	896	90	70-130	4	20	mg/kg	05.07.2020 19:02	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		101		70-130	%	05.07.2020 19:02
o-Terphenyl	87		89		70-130	%	05.07.2020 19:02

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125393

Parent Sample Id: 660830-001

Matrix: Soil

MS Sample Id: 660830-001 S

Prep Method: SW8015P

Date Prep: 05.07.2020

MSD Sample Id: 660830-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	911	91	930	93	70-130	2	20	mg/kg	05.07.2020 12:45	
Diesel Range Organics (DRO)	<49.9	997	878	88	887	89	70-130	1	20	mg/kg	05.07.2020 12:45	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		99		70-130	%	05.07.2020 12:45
o-Terphenyl	86		85		70-130	%	05.07.2020 12:45

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125677

MB Sample Id: 7703149-1-BLK

Matrix: Solid

LCS Sample Id: 7703149-1-BKS

Prep Method: SW5035A

Date Prep: 05.12.2020

LCSD Sample Id: 7703149-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.108	108	70-130	7	35	mg/kg	05.12.2020 09:12	
Toluene	<0.00200	0.100	0.108	108	0.115	115	70-130	6	35	mg/kg	05.12.2020 09:12	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.105	105	70-130	8	35	mg/kg	05.12.2020 09:12	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.211	106	70-130	8	35	mg/kg	05.12.2020 09:12	
o-Xylene	<0.00200	0.100	0.0950	95	0.103	103	70-130	8	35	mg/kg	05.12.2020 09:12	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		105		106		70-130	%	05.12.2020 09:12
4-Bromofluorobenzene	106		104		109		70-130	%	05.12.2020 09:12

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Larson and Associates, Inc.
Chevron-Skeen 23 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125729

MB Sample Id: 7703198-1-BLK

Matrix: Solid

LCS Sample Id: 7703198-1-BKS

Prep Method: SW5035A

Date Prep: 05.12.2020

LCSD Sample Id: 7703198-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.109	109	70-130	8	35	mg/kg	05.12.2020 09:12	
Toluene	<0.00200	0.100	0.108	108	0.116	116	70-130	7	35	mg/kg	05.12.2020 09:12	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.105	105	70-130	8	35	mg/kg	05.12.2020 09:12	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.213	107	70-130	9	35	mg/kg	05.12.2020 09:12	
o-Xylene	<0.00200	0.100	0.0950	95	0.103	103	70-130	8	35	mg/kg	05.12.2020 09:12	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	107		105		106		70-130			%	05.12.2020 09:12	
4-Bromofluorobenzene	106		104		109		70-130			%	05.12.2020 09:12	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125677

Parent Sample Id: 660830-001

Matrix: Soil

MS Sample Id: 660830-001 S

Prep Method: SW5035A

Date Prep: 05.12.2020

MSD Sample Id: 660830-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.122	123	0.115	115	70-130	6	35	mg/kg	05.12.2020 09:53	
Toluene	<0.00198	0.0992	0.131	132	0.124	124	70-130	5	35	mg/kg	05.12.2020 09:53	X
Ethylbenzene	<0.00198	0.0992	0.120	121	0.114	114	70-130	5	35	mg/kg	05.12.2020 09:53	
m,p-Xylenes	<0.00397	0.198	0.242	122	0.230	116	70-130	5	35	mg/kg	05.12.2020 09:53	
o-Xylene	<0.00198	0.0992	0.113	114	0.109	109	70-130	4	35	mg/kg	05.12.2020 09:53	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			107		106		70-130			%	05.12.2020 09:53	
4-Bromofluorobenzene			114		114		70-130			%	05.12.2020 09:53	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125729

Parent Sample Id: 660830-020

Matrix: Soil

MS Sample Id: 660830-020 S

Prep Method: SW5035A

Date Prep: 05.12.2020

MSD Sample Id: 660830-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.111	111	0.102	103	70-130	8	35	mg/kg	05.12.2020 20:28	
Toluene	<0.00200	0.0998	0.105	105	0.0996	100	70-130	5	35	mg/kg	05.12.2020 20:28	
Ethylbenzene	<0.00200	0.0998	0.0911	91	0.0861	87	70-130	6	35	mg/kg	05.12.2020 20:28	
m,p-Xylenes	<0.00399	0.200	0.166	83	0.169	85	70-130	2	35	mg/kg	05.12.2020 20:28	
o-Xylene	<0.00200	0.0998	0.0875	88	0.0838	84	70-130	4	35	mg/kg	05.12.2020 20:28	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			112		110		70-130			%	05.12.2020 20:28	
4-Bromofluorobenzene			105		106		70-130			%	05.12.2020 20:28	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Varson & Associates, Inc.
Environmental Consultants

507 N. Morienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 05/07/2020

PAGE 1 OF 2

PO#:

LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron - Skene 23 CTB

LAI PROJECT #: 20-0107-09 COLLECTOR: EC/DS

CHAIN-OF-CUSTODY

No 1031

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		MDT/NM		Field Sample I.D.		Lab #		Date		Time		Matrix		# of Containers		PRESERVATION		ANALYSES		FIELD NOTES	
Yes ☐ No ☒																											
S-10 (1')																											
S-10 (3')																											
S-10 (5')																											
S-5 (1')																											
S-5 (3')																											
S-5 (5')																											
S-4 (1')																											
S-4 (3')																											
S-4 (5')																											
S-4 (6')																											
S-3 (1')																											
S-3 (3')																											
S-3 (5')																											
S-3 (8')																											
S-6 (1')																											
TOTAL 15																											

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 5/6/2020 PAGE 2 OF 2
PO#: _____ LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Chevron - Screen 23 CTB
LAI PROJECT #: 20-0107-09 COLLECTOR: EC/DS

CHAIN-OF-CUSTODY

10
2
3
0
1
N

Final 1,000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 05.07.2020 09.02.00 AM

Work Order #: 660830

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

Sample 005 is missing. Received an empty container

BTEX was in bulk container

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 05.07.2020

Checklist reviewed by:



Holly Taylor

Date: 05.11.2020



Xenco

Certificate of Analysis Summary 666166

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 23 STB

Project Id: 20-0107-09

Contact: Mark Larson

Project Location:

Date Received in Lab: Thu 07.02.2020 08:21

Report Date: 07.09.2020 13:48

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	666166-001	666166-002	666166-003	666166-004		
	Field Id:	S-5 BH-1 5'	S-5 BH-1 10'	S-5 BH-1 15'	S-5 BH-1 20'		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	07.01.2020 09:55	07.01.2020 10:00	07.01.2020 10:10	07.01.2020 10:20		
Chloride by EPA 300	Extracted:	07.06.2020 17:00	07.06.2020 17:00	07.06.2020 17:00	07.06.2020 17:00		
	Analyzed:	07.06.2020 21:32	07.06.2020 21:37	07.06.2020 21:42	07.06.2020 21:47		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		106 49.8	96.5 50.0	151 50.0	187 50.3		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Xenco

Analytical Report 666166

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Skeen 23 STB

20-0107-09

07.09.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.09.2020

Project Manager: **Mark Larson**

Larson and Associates, Inc.

P. O. Box 50685

Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **666166**

Skeen 23 STB

Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666166. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666166 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Holly Taylor".

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 666166****Larson and Associates, Inc., Midland, TX**

Skeen 23 STB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-5 BH-1 5'	S	07.01.2020 09:55		666166-001
S-5 BH-1 10'	S	07.01.2020 10:00		666166-002
S-5 BH-1 15'	S	07.01.2020 10:10		666166-003
S-5 BH-1 20'	S	07.01.2020 10:20		666166-004



Xenco

CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Skeen 23 STB

Project ID: 20-0107-09
Work Order Number(s): 666166

Report Date: 07.09.2020
Date Received: 07.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 666166

Larson and Associates, Inc., Midland, TX

Skeen 23 STB

Sample Id: **S-5 BH-1 5'**

Matrix: Soil

Date Received: 07.02.2020 08:21

Lab Sample Id: 666166-001

Date Collected: 07.01.2020 09:55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.06.2020 17:00

Basis: Wet Weight

Seq Number: 3130872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	49.8	mg/kg	07.06.2020 21:32		10



Certificate of Analytical Results 666166

Larson and Associates, Inc., Midland, TX

Skeen 23 STB

Sample Id: **S-5 BH-1 10'**

Matrix: Soil

Date Received: 07.02.2020 08:21

Lab Sample Id: 666166-002

Date Collected: 07.01.2020 10:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.06.2020 17:00

Basis: Wet Weight

Seq Number: 3130872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.5	50.0	mg/kg	07.06.2020 21:37		10

**Certificate of Analytical Results 666166****Larson and Associates, Inc., Midland, TX**

Skeen 23 STB

Sample Id: **S-5 BH-1 15'**

Matrix: Soil

Date Received: 07.02.2020 08:21

Lab Sample Id: 666166-003

Date Collected: 07.01.2020 10:10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.06.2020 17:00

Basis: Wet Weight

Seq Number: 3130872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	151	50.0	mg/kg	07.06.2020 21:42		10



Certificate of Analytical Results 666166

Larson and Associates, Inc., Midland, TX

Skeen 23 STB

Sample Id: **S-5 BH-1 20'**

Matrix: Soil

Date Received: 07.02.2020 08:21

Lab Sample Id: 666166-004

Date Collected: 07.01.2020 10:20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.06.2020 17:00

Basis: Wet Weight

Seq Number: 3130872

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	187	50.3	mg/kg	07.06.2020 21:47		10



Xenco

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Larson and Associates, Inc.

Skeen 23 STB

Analytical Method: Chloride by EPA 300

Seq Number: 3130872

MB Sample Id: 7706808-1-BLK

Matrix: Solid

LCS Sample Id: 7706808-1-BKS

Prep Method: E300P

Date Prep: 07.06.2020

LCSD Sample Id: 7706808-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	257	103	90-110	0	20	mg/kg	07.06.2020 20:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3130872

Parent Sample Id: 666164-053

Matrix: Soil

MS Sample Id: 666164-053 S

Prep Method: E300P

Date Prep: 07.06.2020

MSD Sample Id: 666164-053 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	350	253	600	99	603	100	90-110	0	20	mg/kg	07.06.2020 20:51	

Analytical Method: Chloride by EPA 300

Seq Number: 3130872

Parent Sample Id: 666230-004

Matrix: Soil

MS Sample Id: 666230-004 S

Prep Method: E300P

Date Prep: 07.06.2020

MSD Sample Id: 666230-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.9	248	278	108	278	108	90-110	0	20	mg/kg	07.06.2020 22:02	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Varson & Associates, Inc.
Environmental Consultants

507 N. Marientfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 7/1/20

PO#:

PROJECT LOCATION OR NAME: Screen 23 5TBLAB PROJECT #: 20-0107-09COLLECTOR: JJ+DS

LAB WORK ORDER#:

PAGE 1 OF 1

CHAIN-OF-CUSTODY

No 1194

TRRP report?
☐ Yes ☒ No

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

TIME ZONE:
Time zone/State:

MST

Field
Sample I.D.

Lab #

Date

Time

Matrix

of Containers

HCl

HNO₃H₂SO₄ ☐ NaOH ☐

ICE

UNPRESERVED

ANALYSES

BTEX ☐ MTBE ☐
TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐
GASOLINE MOD 8015 ☐
DIESEL - MOD 8015 ☐
OIL - MOD 8015 ☐
VOC 8260 ☐
SVOC 8270 ☐ PAH 8270 ☐ HCLPAH ☐
8081 PESTICIDES ☐ 8151 HERBICIDES ☐
8082 PCBs ☐
TCLP - METALS (RCRA) ☐ TCLP VOC ☐
TOTAL METALS (RCRA) ☐ Semi-VOC ☐
LEAD - TOTAL ☐ FLASHPOINT ☐ TCLP ☐
RCI ☐ TOX ☐ % MOISTURE ☐ CYANIDE ☐
TDS ☐ TSS ☐ pH ☐ HEXAVALENT CHROMIUM ☐
EXPLOSIVES ☐ PECHLORATE ☐
CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

5-5 BH-1 5'
5-5 BH-1 10'
5-5 BH-1 15'
5-5 BH-1 20'

7/1/20

0955

5

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

TOTAL

4

RELINQUISHED BY: (Signature)

Steve Sam

DATE/TIME

7/2/20

RECEIVED BY: (Signature)

Steve Sam

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: 20.8 THERM: 20.8CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.**Date/ Time Received:** 07.02.2020 08.21.00 AM**Work Order #:** 666166**Acceptable Temperature Range:** 0 - 6 degC**Air and Metal samples Acceptable Range:** Ambient**Temperature Measuring device used :** IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	26.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	No
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 07.02.2020

Checklist reviewed by:

Holly Taylor

Date: 07.02.2020

Appendix D

Photographs

nRM2009061396
Delineation Report and Remediation Plan
Chevron SUA, Inc., Skeen 23 CTB
Produced Water Release
January 21, 2021



Location sign, April 1, 2020



Impacted area viewing north, April 1, 2020

nRM2009061396
Delineation Report and Remediation Plan
Chevron SUA, Inc., Skeen 23 CTB
Produced Water Release
January 21, 2021



Impacted area viewing south/southwest, April 1, 2020



Impacted area viewing northeast, April 1, 2020

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

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

CONDITIONS

Action 15261

CONDITIONS OF APPROVAL

Operator:	CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	OGRID:	4323	Action Number:	15261	Action Type:	C-141
OCD Reviewer	Condition								
ceads	None								