1RP-4818 CLOSURE REPORT SALADO DRAW RWCS 1RC-11 PRODUCED WATER SPILL Lea County, New Mexico

Latitude: N32.033822° Longitude: W-103.638572°

LAI Project No. 17-0186-01

January 19, 2019

Prepared for:

Chevron USA Inc. 6301 Deauville Boulevard Midland, Texas 79706

Prepared by:

Larson & Associates, Inc. 507 N. Marienfeld Street, Suite 205 Midland, Texas 79701

Mark J. Larson, P.G.

Certified Professional Geologist #10490

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1RP-4818 Closure Report RWCS 1RC-11 Produced Water Spill Lea County, New Mexico January 19, 2019

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1.0 INTRODUCTION

This closure report is submitted to the New Mexico Oil Conservation (OCD) on behalf of Chevron North America Exploration & Production Company (Chevron) by Larson & Associate, Inc. (LAI) for a produced water (treated) spill at the Salado Draw water recycling facility (Site) located in Unit A (NE 1/4, NE 1/4), Section 23, Township 26 South, Range 32 East, in Lea County, New Mexico. The geodetic position is North 32.033156° and West -103.639194°. Figure 1 presents a location and topographic map.

1.1 Background

The spill occurred on September 13, 2017 and was caused by a leak in a hose on the recirculation system. This leak released approximately 1,105 barrels of treated produced water. The source of the flow was isolated and approximately 500 barrels of treated produced water was recovered by vacuum truck. The spill occurred between the North and South treated water pits located south of the RWCS 1RC treatment facility. The spill flowed from the north side of the South pit to a low area between the South and North pits. The spill then flowed east and west for a distance of about 600 feet and covered an area approximately 20,711 square feet or about 0.47 acres. On September 13, 2017, Chevron verbally notified the OCD District 1 and the U.S. Bureau of Land Management (BLM), as surface and mineral owner. The OCD assigned the spill remediation permit number 1RP-4818. Appendix A presents the initial C-141.

1.2 Physical Setting

The physical setting is as follows:

- Surface elevation is approximately 3,150 feet above mean sea level (MSL);
- The topography slopes towards the south and southwest;
- The nearest surface water features is a seasonal playa located approximately 3,900 feet southeast of the Site.
- The surface soils are designated as "Pyote and Maljamar fine sands" which consist of approximately 30 inches of fine sand underlain by fine sandy loam to approximately 60 inches below ground surface(bgs);
- The soil is sandy eolian deposits derived from sedimentary rocks and underlain by cemented material (caliche);
- Groundwater occurs at roughly 150 feet below ground surface (bgs) according to records from the New Mexico Office of the State Engineer (NMOSE) and the U.S. Geological Survey.

1.3 Remediation Levels

Recommended remediation action levels, based on closure criteria in Table 1 (19.15.29 NMAC), for benzene, total BTEX (benzene, ethylbenzene, toluene and xylenes), total petroleum hydrocarbons (TPH) and chloride are as follows:

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

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2.0 SPILL DELINEATION

On October 13, 2017, LAI personnel used direct-push technology (DPT) to collect soil samples at ten (10) locations (S-1 through S-4, S-6 and S-8 through S-12). Samples were not collected at location S-5 and S-7 located east of the release due to interference from lay-flat hoses spread across the area. DPT uses hydraulics to push or percussion hammer and stainless steel core barrel approximately 4 feet in length into the subsurface. The core barrel retrieves a soil core approximately 1.7 inches in diameter and about 4 feet in length depending on recovery. The core barrel is equipped with dedicated polyethylene liners to minimize possible cross contamination between samples. Soil samples were collected to a maximum depth of about 16 feet bgs at location S-6 located near the east end of the release. On January 16, 2018, Harrison Cooper, Inc. (HCI), Lubbock, Texas, used an air rotary rig to collect soil samples every 5 feet (10, 15 and 20) feet bgs for vertical delineation of chloride at location S-2 and beginning at ground surface and every 5 feet thereafter to 20 feet bgs at location S-5 to complete spill delineation The borings were plugged with bentonite and locations were recorded with a Trimble® global position system (GPS) receiver.

The soil samples collected on October 13, 2018, were analyzed by Xenco Laboratories, Midland, Texas. The soil samples collected on January 16, 2018 were analyzed by Permian Basin Environmental Lab, Midland, Texas. The laboratories analyzed the upper sample (0 to 1 foot) from each location for BTEX and TPH, including gasoline range organics (C6 – C12), diesel range organics (>C12 – C28) and oil range organics (>C28 – C35) by EPA SW-846 Methods 8021B and 8015 modified, respectively. All samples were analyzed for chloride by EPA Method 300. Table 1 presents the delineation sample laboratory analytical data summary. Figure 3 presents the soil sample locations. Attachment B presents the laboratory reports. Attachment C presents photographs.

Referring to Table 1, benzene, BTEX and TPH were below the analytical method reporting limit and closure criteria (Table 1, 15.19.29 NMAC) in the upper sample (0 to 1 foot) at each location therefore no additional samples were analyzed for these parameters. Chloride was delineated vertically to 600 mg/Kg at all locations. Chloride was below the OCD closure criteria (20,000 mg/Kg) in all samples.

3.0 CLOSURE

Benzene, BTEX, TPH and chloride concentrations are below the closure criteria in Table 1 (19.15.29 NMAC), therefore, Chevron requests no further action and closure of 1RP-4818.

Tables

Table 1 1RP-4818

Delineation Soil Sample Analytical Data Summary

Chevron North America Exploration and Production Co., Salado Draw RWCS 1RC-11

UL A, Section 23, Township 26 South, Range 32 East

Lea County, New Mexico

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| | | | | | ancy, recurring | | | | Page 1 of 5 |
|--------|--------|------------|----------|----------|-----------------|-----------|-----------|---------|-------------|
| Sample | Depth | Collection | Benzene | BTEX | C6 - C12 | C12 - C28 | C28 - C35 | TPH | Chloride |
| | (Feet) | Date | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| RRAL: | | | 10 | 50 | | | | 5,000 | *600 |
| S-1 | 0 - 1 | 10/13/2017 | <0.00196 | <0.01176 | <15.0 | <15.0 | <15.0 | <15.0 | 5,940 |
| | 1 - 2 | 10/13/2017 | | | | | | | 5,440 |
| | 2 - 3 | 10/13/2017 | | | | | | | 140 |
| | 3 - 4 | 10/13/2017 | | | | | | | 32.9 |
| | 4 -5 | 10/13/2017 | | | | | | | 448 |
| | 5 - 6 | 10/13/2017 | | | | | | | 26.0 |
| | 6 - 7 | 10/13/2017 | | | | | | | 33.7 |
| | 7 - 8 | 10/13/2017 | | | | | | | 27.3 |
| | | | | | | | | | |
| S-2 | 0 - 1 | 10/13/2017 | <0.00198 | <0.01189 | <15.0 | <15.0 | <15.0 | <15.0 | 41.1 |
| | 1 - 2 | 10/13/2017 | | | | | | | 109 |
| | 2 - 3 | 10/13/2017 | | | | | | | 474 |
| | 3 - 4 | 10/13/2017 | | | | | | | 673 |
| | 4 -5 | 10/13/2017 | | | | | | | 2,030 |
| | 5 - 6 | 10/13/2017 | | | | | | | 5,060 |
| | 6 - 7 | 10/13/2017 | | | | | | | 1,240 |
| | 10 | 1/16/2018 | | | | | | | 1,420 |
| | 15 | 1/16/2018 | | | | | | | 44.2 |
| | 20 | 1/16/2018 | | | | | | | 56.3 |
| | | | | | | | | | |
| S-3 | 0 - 1 | 10/13/2017 | <0.00196 | <0.01177 | <15.0 | <15.0 | <15.0 | <15.0 | 3,280 |
| | 1 - 2 | 10/13/2017 | | | | | | | 339 |
| | 2 - 3 | 10/13/2017 | | | | | | | 96.0 |
| | 3 - 4 | 10/13/2017 | | | | | | | 89.5 |
| | 4 -5 | 10/13/2017 | | | | | | | 571 |
| | 5 - 6 | 10/13/2017 | | | | | | | 45.9 |

Table 1 1RP-4818

Delineation Soil Sample Analytical Data Summary

Chevron North America Exploration and Production Co., Salado Draw RWCS 1RC-11

UL A, Section 23, Township 26 South, Range 32 East

Lea County, New Mexico

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| | | | | | ······································ | | | | Page 2 of 5 |
|--------|---------|------------|----------|----------|--|-----------|-----------|---------|-------------|
| Sample | Depth | Collection | Benzene | BTEX | C6 - C12 | C12 - C28 | C28 - C35 | TPH | Chloride |
| | (Feet) | Date | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| RRAL: | | | 10 | 50 | | | | 5,000 | *600 |
| | 6 - 7 | 10/13/2017 | | | | | | | 26.0 |
| | 7 - 8 | 10/13/2017 | | | | | | | 6.19 |
| | 8 - 9 | 10/13/2017 | | | | | | | 179 |
| | 9 - 10 | 10/13/2017 | | | | | | | 5.3 |
| | 10 - 11 | 10/13/2017 | | | | | | | 7.05 |
| | | | | | | | | | |
| S-4 | 0 - 1 | 10/13/2017 | <0.00197 | <0.01182 | <15.0 | <15.0 | <15.0 | <15.0 | 216 |
| | 1 - 2 | 10/13/2017 | | | | | | | 51.4 |
| | 2 - 3 | 10/13/2017 | | | | | | | 44.0 |
| | 3 - 4 | 10/13/2017 | | | | | | | 16.3 |
| | 4 -5 | 10/13/2017 | | | | | | | 28.9 |
| | 5 - 6 | 10/13/2017 | | | | | | | 19.5 |
| | 6 - 7 | 10/13/2017 | | | | | | | 7.01 |
| | 7 - 8 | 10/13/2017 | | | | | | | <4.97 |
| | | | | | | | | | |
| S-5 | 0 | 10/13/2017 | | | | | | | 773 |
| | 5 | 10/13/2017 | | | | | | | 74.9 |
| | 10 | 10/13/2017 | | | | | | | 28.5 |
| | 15 | 10/13/2017 | | | | | | | 33.3 |
| | 20 | 10/13/2017 | | | | | | | 14.3 |
| | | | | | | | | | |
| S-6 | 0 - 1 | 10/18/2017 | <0.00200 | <0.0120 | <15.0 | <15.0 | <15.0 | <15.0 | 1,390 |
| | 1 - 2 | 10/18/2017 | | | | | | | 974 |
| | 2 - 3 | 10/18/2017 | | | | | | | 2,320 |
| | 3 - 4 | 10/18/2017 | | | | | | | 269 |
| | 4 -5 | 10/18/2017 | | | | | | | 22.5 |

Table 1 1RP-4818

Delineation Soil Sample Analytical Data Summary

Chevron North America Exploration and Production Co., Salado Draw RWCS 1RC-11

UL A, Section 23, Township 26 South, Range 32 East

Lea County, New Mexico

N32.033156° W-103.639194°

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| Sample | Depth | Collection | Benzene | BTEX | C6 - C12 | C12 - C28 | C28 - C35 | TPH | Chloride |
|--------|---------|------------|----------|----------|----------|-----------|-----------|---------|----------|
| | (Feet) | Date | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| RRAL: | | | 10 | 50 | | | | 5,000 | *600 |
| | 5 - 6 | 10/18/2017 | | | | | | | 49.4 |
| | 6 - 7 | 10/18/2017 | | | | | | | 38.4 |
| | 7 - 8 | 10/18/2017 | | | | | | | 20.9 |
| | 8 - 9 | 10/18/2017 | | | | | | | 27.3 |
| | 9 - 10 | 10/18/2017 | | | | | | | 16.2 |
| | 10 - 11 | 10/18/2017 | | | | | | | <5.00 |
| | 11 - 12 | 10/18/2017 | | | | | | | <4.96 |
| | 12 - 13 | 10/18/2017 | | | | | | | 103 |
| | 13 - 14 | 10/18/2017 | | | | | | | 169 |
| | 14 - 15 | 10/18/2017 | | | | | | | 127 |
| | | | | | | | | | |
| SB-8 | 0 - 1 | 10/12/2017 | <0.002 | <0.01199 | <15.0 | <15.0 | <15.0 | <15.0 | 220 |
| | 1 - 2 | 10/12/2017 | | | | | | | 3,150 |
| | 2 - 3 | 10/12/2017 | | | | | | | 533 |
| | 3 - 4 | 10/18/2017 | | | | | | | 576 |
| | 4 - 5 | 10/18/2017 | | | | | | | 1,840 |
| | 5 - 6 | 10/18/2017 | | | | | | | 22.0 |
| | 6 - 7 | 10/18/2017 | | | | | | | 6.73 |
| | | | | | | | | | |
| SB-9 | 0 - 1 | 10/13/2017 | <0.002 | <0.012 | <15.0 | <15.0 | <15.0 | <15.0 | 37.6 |
| | 1 - 2 | 10/13/2017 | | | | | | | 23.6 |
| | 2 - 3 | 10/13/2017 | | | | | | | 30.8 |
| | 3 - 4 | 10/13/2017 | | | | | | | 24.7 |
| | | | | | | | | | |
| S-10 | 0 - 1 | 10/12/2017 | <0.00195 | <0.01169 | <15.0 | <15.0 | <15.0 | <15.0 | 40.2 |

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Delineation Soil Sample Analytical Data Summary

Chevron North America Exploration and Production Co., Salado Draw RWCS 1RC-11

UL A, Section 23, Township 26 South, Range 32 East

Lea County, New Mexico

N32.033156° W-103.639194°

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| Sample | Depth | Collection | Benzene | BTEX | C6 - C12 | C12 - C28 | C28 - C35 | TPH | Chloride |
|--------|---------|------------|----------|----------|----------|-----------|-----------|---------|----------|
| | (Feet) | Date | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| RRAL: | | | 10 | 50 | | | | 5,000 | *600 |
| | 1 - 2 | 10/12/2017 | | | | | | | 28.6 |
| | 2 - 3 | 10/12/2017 | | | | | | | 16.6 |
| | 3 - 4 | 10/12/2017 | | | | | | | <4.97 |
| | 4 -5 | 10/12/2017 | | | | | | | 5.73 |
| | 5 - 6 | 10/12/2017 | | | | | | | <4.92 |
| | | | | | | | | | |
| S-11 | 0 - 1 | 10/12/2017 | <0.00197 | <0.01182 | <15.0 | <15.0 | <15.0 | <15.0 | 13.3 |
| | 1 - 2 | 10/12/2017 | | | | | | | 61.8 |
| | 2 - 3 | 10/12/2017 | | | | | | | 4,410 |
| | 3 - 4 | 10/12/2017 | | | | | | | 10,200 |
| | 4 -5 | 10/12/2017 | | | | | | | 2,890 |
| | 5 - 6 | 10/12/2017 | | | | | | | 210 |
| | 6 - 7 | 10/12/2017 | | | | | | | 12.9 |
| | 7 - 8 | 10/12/2017 | | | | | | | 9.37 |
| | 8 - 9 | 10/12/2017 | | | | | | | <4.92 |
| | 9 - 10 | 10/12/2017 | | | | | | | 26.7 |
| | 10 - 11 | 10/12/2017 | | | | | | | 95.9 |
| | | | | | | | | | |
| S-12 | 0 - 1 | 10/12/2017 | < 0.002 | <0.01199 | <15.0 | <15.0 | <15.0 | <15.0 | 13.3 |
| | 1 - 2 | 10/12/2017 | | | | | | | 16.9 |
| | 2 - 3 | 10/12/2017 | | | | | | | 14.4 |
| | 3 - 4 | 10/12/2017 | | | | | | | 8.10 |
| | 4 - 5 | 10/12/2017 | | | | | | | 69.1 |
| | 5 - 6 | 10/12/2017 | | | | | | | 26.8 |
| | | | | | | | | | |

Table 1 1RP-4818

Delineation Soil Sample Analytical Data Summary

Chevron North America Exploration and Production Co., Salado Draw RWCS 1RC-11

UL A, Section 23, Township 26 South, Range 32 East

Lea County, New Mexico

N32.033156° W-103.639194°

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| Sample | Depth | Collection | Benzene | BTEX | C6 - C12 | C12 - C28 | C28 - C35 | TPH | Chloride |
|--------|--------|------------|---------|---------|----------|-----------|-----------|---------|----------|
| | (Feet) | Date | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| RRAL: | | | 10 | 50 | | | | 5,000 | *600 |

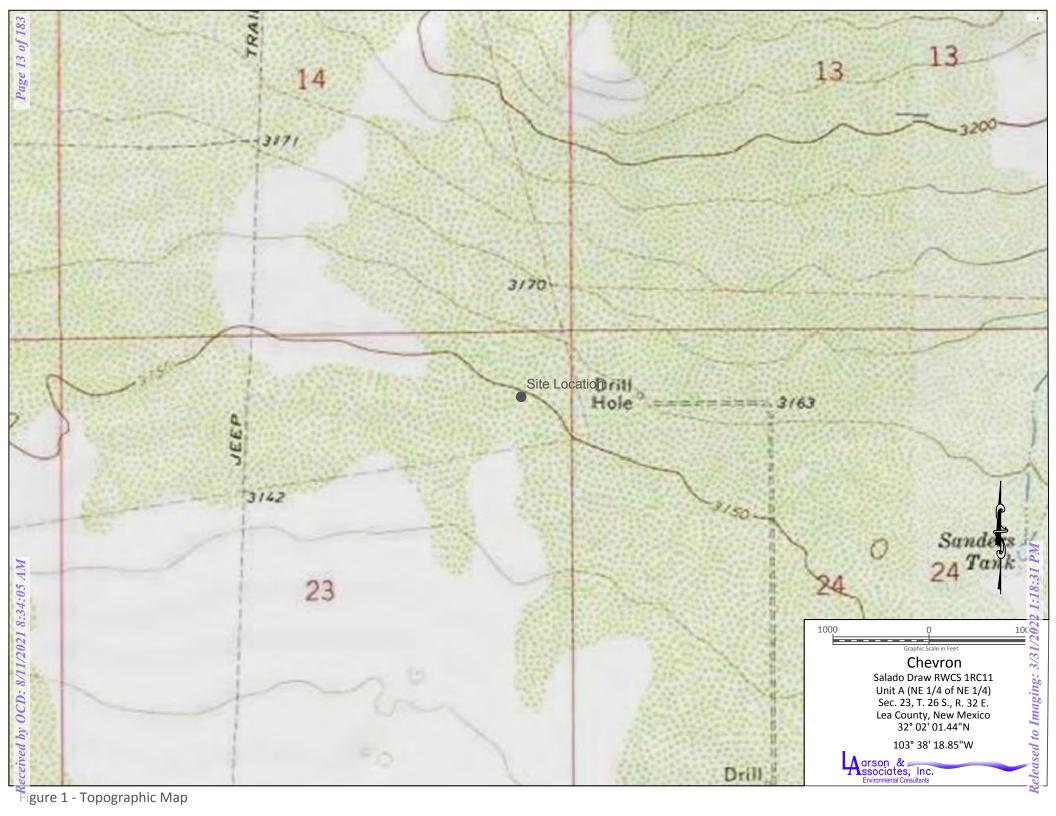
Notes: Analysis performed by Xenco Laboratories, Lubbock, Texas by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH) and 300 (chloride).

Depth in feet below ground surface (bgs)

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

^{*:} OCD delineation limit plus 3 - 4 feet further in depth

Figures







Appendix A

Initial C-141

Form C-141

Revised August 8, 2011

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

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

| Dologo Notificatio | | |
|--|--|---|
| Kelease Noulicauc | on and Corrective A | ction |
| | OPERATOR | ☐ Initial Report ☐ Final Report |
| Name of Company Chevron USA Inc. | Contact Josepha DeLeon | |
| Address 631 Deauville Blvd., Midland TX 79706 | Telephone No. 575-263-04 | 24 Cell – 432-425-1528 |
| Facility Name Salado Draw Water Recycling | Facility: Water Recycling N | |
| , , | | |
| Surface Owner Mineral Owner | | API No's. N/A |
| Federal Federal | | 1RC-11 |
| LOCATIO | ON OF RELEASE | |
| | h/South Line Feet from the | East/West Line County |
| A 23 26S 32E | | Lea |
| Recycling Facility: Latitude - | 32.03634 N Longitude -1 | 03.636212 W |
| Recycling Containment: Latitude | | |
| | | 1001009171 11 |
| | E OF RELEASE | 1 |
| Type of Release Spill | Volume of Release: | Volume Recovered: |
| | 1,105 barrels treated produce water | 500 barrels treated produced water |
| Source of Release: Recirculation System Hose | Date and Hour of Occurrence | e: Date and Hour of Discovery |
| , | 09/13/2017; 02:54 AM | 09/13/2017; 10:20 AM |
| Was Immediate Notice Given? | If YES, To Whom? | |
| ☐ Yes ☐ No ☐ Not Required | | |
| D. Whang Lands D.Lan | Jim Amos – BLM, Shelly Tu | |
| By Whom? Josepha DeLeon Was a Watercourse Reached? | Date and Hour: 09/13/2017: If YES, Volume Impacting t | |
| Yes No | ii 123, volume impacting t | ne watercourse. |
| | | |
| If a Watercourse was Impacted, Describe Fully.* | RECEIVED | |
| N/A | By Olivia V | of 9,46 om Son 22, 2047 |
| D | By Olivia Yu | at 8:46 am, Sep 22, 2017 |
| Describe Cause of Problem and Remedial Action Taken * | | |
| Describe Cause of Problem and Remedial Action Taken.* | | |
| Describe Cause of Problem and Remedial Action Taken.* Leak in recirculation system hose caused a spill of 1,105 barrels of treat | ed produced water. A total of 50 | 0 barrels were recovered by vacuum truck. |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat | - | 0 barrels were recovered by vacuum truck. |
| | - | 0 barrels were recovered by vacuum truck. |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck in the source of the so | - | 0 barrels were recovered by vacuum truck. |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat | - | 0 barrels were recovered by vacuum truck. |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* | and hauled. | |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck in the source of the so | and hauled. | |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* Samples of the spilled treated produced water have been collected and so and BLM for approval. I hereby certify that the information given above is true and complete to | and hauled. ent to analytical lab for analysis. the best of my knowledge and u | Remediation plan will be submitted to NMOCD nderstand that pursuant to NMOCD rules and |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* Samples of the spilled treated produced water have been collected and so and BLM for approval. I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release | ent to analytical lab for analysis. the best of my knowledge and u notifications and perform correc | Remediation plan will be submitted to NMOCD inderstand that pursuant to NMOCD rules and tive actions for releases which may endanger |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* Samples of the spilled treated produced water have been collected and so and BLM for approval. I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the spilled treated are produced to the spilled treated and Samples of the spilled treated produced water have been collected and so and BLM for approval. | ent to analytical lab for analysis. the best of my knowledge and u notifications and perform correct he NMOCD marked as "Final Roman Perform Correct NMOCD marked States N | Remediation plan will be submitted to NMOCD Inderstand that pursuant to NMOCD rules and tive actions for releases which may endanger eport" does not relieve the operator of liability |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* Samples of the spilled treated produced water have been collected and sound BLM for approval. I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate to the spilled treated to adequately investigate and remediate to the spilled treated to adequately investigate and remediate to the spilled treated produced water have been collected and spilled treated produced water have been collected | and hauled. ent to analytical lab for analysis. the best of my knowledge and u notifications and perform correct he NMOCD marked as "Final Rate contamination that pose a throater to a support the contamination that pose a throater to analyze the same to analyze the same transfer transfer to analyze the same transfer transfer to analyze the same transfer trans | Remediation plan will be submitted to NMOCD inderstand that pursuant to NMOCD rules and tive actions for releases which may endanger eport" does not relieve the operator of liability eat to ground water, surface water, human health |
| Leak in recirculation system hose caused a spill of 1,105 barrels of treat. Isolated source of flow and 500 barrels were captured by vacuum truck and Describe Area Affected and Cleanup Action Taken.* Samples of the spilled treated produced water have been collected and so and BLM for approval. I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedit or the environment. In addition, NMOCD acceptance of a C-141 report | and hauled. ent to analytical lab for analysis. the best of my knowledge and u notifications and perform correct he NMOCD marked as "Final Rate contamination that pose a throater to a support the contamination that pose a throater to analyze the same to analyze the same transfer transfer to analyze the same transfer transfer to analyze the same transfer trans | Remediation plan will be submitted to NMOCD inderstand that pursuant to NMOCD rules and tive actions for releases which may endanger eport" does not relieve the operator of liability eat to ground water, surface water, human health |
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* Attach Additional Sheets If Necessary

fTO1706148730

1RP-4818

nOY1726532992

pOY1726533422

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _9/19/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4818__ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/22/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Appendix B

Laboratory Reports



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw

Page 21 of 18

Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565814-0 | 001 | 565814-0 | 02 | 565814-0 | 003 | 565814-0 | 004 | 565814-0 | 005 | 565814-0 | 06 |
|-----------------------------|------------|-----------|---------|-----------------|------|-----------------|-------|-----------------|-------|-----------------|---------|-----------------|------|
| Analysis Paguastad | Field Id: | S-9 0- | 1 | S-9 1-2 | , | S-9 2-3 | 3 | S-9 3-4 | 1 | S-1 0-1 | l | S-1 1-2 | 2 |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | , | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-13-17 | 11:15 | Oct-13-17 1 | 1:17 | Oct-13-17 1 | 11:22 | Oct-13-17 | 11:25 | Oct-13-17 | 11:34 | Oct-13-17 1 | 1:38 |
| BTEX by EPA 8021B | Extracted: | Oct-18-17 | 12:00 | | | | | | | Oct-18-17 | 12:00 | | |
| | Analyzed: | Oct-18-17 | 19:50 | | | | | | | Oct-18-17 2 | 20:09 | | |
| | Units/RL: | mg/kg | RL | | | | | | | mg/kg | RL | | |
| Benzene | · | < 0.00200 | 0.00200 | | | | | | | < 0.00196 | 0.00196 | | |
| Toluene | | < 0.00200 | 0.00200 | | | | | | | < 0.00196 | 0.00196 | | |
| Ethylbenzene | | < 0.00200 | | | | | | | | < 0.00196 | 0.00196 | | |
| m,p-Xylenes | | < 0.00400 | 0.00400 | | | | | | | < 0.00392 | 0.00392 | | |
| o-Xylene | | < 0.00200 | 0.00200 | | | | | | | < 0.00196 | 0.00196 | | |
| Total Xylenes | | < 0.00200 | 0.00200 | | | | | | | < 0.00196 | 0.00196 | | |
| Total BTEX | | < 0.00200 | 0.00200 | | | | | | | < 0.00196 | 0.00196 | | |
| Chloride by EPA 300 | Extracted: | Oct-18-17 | 13:20 | Oct-18-17 13:20 | | Oct-18-17 13:20 | | Oct-18-17 13:20 | | Oct-18-17 13:20 | | Oct-18-17 13:20 | |
| | Analyzed: | Oct-18-17 | 16:39 | Oct-18-17 1 | 7:02 | Oct-18-17 17:09 | | Oct-18-17 17:17 | | Oct-18-17 | 17:25 | Oct-18-17 1 | 7:48 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 37.6 | 4.99 | 23.6 | 4.90 | 30.8 | 5.00 | 24.7 | 4.92 | 5940 | 49.1 | 5440 | 49.4 |
| TPH By SW8015 Mod | Extracted: | Oct-18-17 | 11:00 | | | | | | | Oct-18-17 | 11:00 | | |
| | Analyzed: | Oct-18-17 | 16:54 | | | | | | | Oct-18-17 | 17:56 | | |
| | Units/RL: | mg/kg | RL | | | | | | | mg/kg | RL | | |
| Gasoline Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | <15.0 | 15.0 | | |
| Diesel Range Organics | | <15.0 | 15.0 | | | | | | | <15.0 | 15.0 | | |
| Oil Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | <15.0 | 15.0 | | |
| Total TPH | | | 15.0 | | | | | | | <15.0 | 15.0 | | |

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw

565814-009



Project Id: Contact:

Mark Larson

Lab Id:

565814-007

Chevron Salado Draw **Project Location:**

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 Project Manager: Kelsey Brooks

| 565814-010 | 565814-011 | 565814-012 |
|------------|------------|------------|
| S-1 5-6 | S-1 6-7 | S-1 7-8 |
| | | |
| COII | COIL | COIL |

| Analysis Requested | Field Id: | S-1 2-3 | S-1 2-3 | | S-1 3-4 | | S-1 4-5 | | S-1 5-6 | | S-1 6-7 | | 3 |
|---------------------|------------|-----------|-----------------|-----------------|-----------------|-------------|---------|-----------------|---------|-----------------|---------|-------------|-------|
| Anaiysis Requesieu | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | SOIL | | | SOIL | | SOIL | SOIL | | SOIL | | |
| | Sampled: | Oct-13-17 | Oct-13-17 11:41 | | 11:44 | Oct-13-17 1 | 11:49 | Oct-13-17 1 | 1:52 | Oct-13-17 11:55 | | Oct-13-17 | 12:00 |
| Chloride by EPA 300 | Extracted: | Oct-18-17 | Oct-18-17 13:20 | | Oct-18-17 13:20 | | 3:20 | Oct-18-17 1 | 3:20 | Oct-18-17 | 13:20 | Oct-18-17 1 | 13:20 |
| | Analyzed: | Oct-18-17 | 17:56 | Oct-18-17 18:03 | | Oct-18-17 1 | 8:11 | Oct-18-17 18:19 | | Oct-18-17 | 18:26 | Oct-18-17 1 | 18:49 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 140 | 4.96 | 32.9 | 4.90 | 448 | 5.00 | 26.0 | 4.94 | 33.7 | 4.96 | 27.3 | 5.00 |
| | | | | | | | | | | | | | |

565814-008

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Knis Roah Kelsey Brooks Project Manager



Larson & Associates, Midland, TX

Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565814-0 |)13 | 565814-0 | 14 | 565814-0 | 15 | 565814-0 | 116 | 565814-0 |)17 | 565814-0 | 118 |
|-----------------------------|------------|-------------|---------|-------------|------|-----------------|------|-----------------|------|-----------------|-------|-------------|-------|
| | Field Id: | S-3 0-1 | - | S-3 1-2 | | S-3 2-3 | | S-3 3-4 | | S-3 4-5 | | S-3 5-6 | |
| Analysis Requested | | 3-3 0-1 | l | 3-3 1-2 | | 3-3 2-3 | ' | 3-3 3-4 | , | 3-3 4 | , | 3-3 3-0 | , |
| | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-13-17 1 | 12:40 | Oct-13-17 1 | 2:42 | Oct-13-17 1 | 2:44 | Oct-13-17 | 2:46 | Oct-13-17 | 12:56 | Oct-13-17 1 | 12:57 |
| BTEX by EPA 8021B | Extracted: | Oct-18-17 1 | 12:00 | | | | | | | | | | |
| | Analyzed: | Oct-18-17 2 | 20:27 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Benzene | ' | < 0.00196 | 0.00196 | | | | | | | | | | |
| Toluene | | < 0.00196 | 0.00196 | | | | | | | | | | |
| Ethylbenzene | | < 0.00196 | 0.00196 | | | | | | | | | | |
| m,p-Xylenes | | < 0.00393 | 0.00393 | | | | | | | | | | |
| o-Xylene | | < 0.00196 | 0.00196 | | | | | | | | | | |
| Total Xylenes | | < 0.00196 | 0.00196 | | | | | | | | | | |
| Total BTEX | | < 0.00196 | 0.00196 | | | | | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-18-17 1 | 13:20 | Oct-18-17 1 | 3:20 | Oct-18-17 1 | 3:20 | Oct-18-17 1 | 3:20 | Oct-18-17 | 13:20 | Oct-18-17 1 | 3:20 |
| | Analyzed: | Oct-18-17 1 | 18:57 | Oct-18-17 1 | 9:20 | Oct-18-17 19:28 | | Oct-18-17 19:35 | | Oct-18-17 19:43 | | Oct-18-17 1 | 9:51 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 3280 | 25.0 | 339 | 4.99 | 96.0 | 4.99 | 89.5 | 4.97 | 571 | 4.97 | 45.9 | 4.90 |
| TPH By SW8015 Mod | Extracted: | Oct-18-17 1 | 11:00 | | | | | | | | | | |
| | Analyzed: | Oct-18-17 | 18:16 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Gasoline Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | | | | |
| Diesel Range Organics | | <15.0 | 15.0 | | | | | | | | | | |
| Oil Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | | | | |
| Total TPH | | <15.0 | 15.0 | | | | | | | | | | |

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Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565814-0 | 19 | 565814-0 | 20 | 565814-0 | 21 | 565814-0 | 22 | 565814-0 |)23 | 565814-0 | 024 |
|-----------------------------|------------|-----------|-------|-------------|------|-----------------|------|-----------------|------|-----------------|-------|-----------|---------|
| Associate Democrated | Field Id: | S-3 6-7 | 7 | S-3 7-8 | | S-3 8-9 | | S-3 9-1 | 0 | S-3 10-1 | 1 | S-4 0- | 1 |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | , |
| | Sampled: | Oct-13-17 | 12:59 | Oct-13-17 1 | 3:10 | Oct-13-17 1 | 3:13 | Oct-13-17 | 3:13 | Oct-13-17 | 13:15 | Oct-13-17 | 13:24 |
| BTEX by EPA 8021B | Extracted: | | | | | | | | | | | Oct-18-17 | 12:00 |
| | Analyzed: | | | | | | | | | | | Oct-18-17 | 20:46 |
| | Units/RL: | | | | | | | | | | | mg/kg | RL |
| Benzene | · | | | | | | | | | | | < 0.00197 | 0.00197 |
| Toluene | | | | | | | | | | | | < 0.00197 | 0.00197 |
| Ethylbenzene | | | | | | | | | | | | < 0.00197 | 0.00197 |
| m,p-Xylenes | | | | | | | | | | | | < 0.00394 | 0.00394 |
| o-Xylene | | | | | | | | | | | | < 0.00197 | 0.00197 |
| Total Xylenes | | | | | | | | | | | | < 0.00197 | 0.00197 |
| Total BTEX | | | | | | | | | | | | < 0.00197 | 0.00197 |
| Chloride by EPA 300 | Extracted: | Oct-18-17 | 13:20 | Oct-18-17 1 | 3:20 | Oct-18-17 1 | 7:30 | Oct-18-17 | 7:30 | Oct-18-17 | 7:30 | Oct-18-17 | 17:30 |
| | Analyzed: | Oct-18-17 | 19:58 | Oct-18-17 2 | 0:06 | Oct-19-17 06:20 | | Oct-19-17 06:28 | | Oct-19-17 06:51 | | Oct-19-17 | 06:59 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 26.0 | 4.95 | 6.19 | 4.99 | 179 | 4.98 | 5.27 | 4.93 | 7.05 | 4.91 | 216 | 4.94 |
| TPH By SW8015 Mod | Extracted: | | | | | | | | | | ĺ | Oct-18-17 | 11:00 |
| | Analyzed: | | | | | | | | | | | Oct-18-17 | 18:36 |
| | Units/RL: | | | | | | | | | | | mg/kg | RL |
| Gasoline Range Hydrocarbons | | | | | | | | | | | | <15.0 | 15.0 |
| Diesel Range Organics | | | | | | | | | | | | <15.0 | 15.0 |
| Oil Range Hydrocarbons | | | | | | | | | | | | <15.0 | 15.0 |
| Total TPH | | | | | | | | | | | | <15.0 | 15.0 |

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Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id:

Contact: Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17

Project Manager: Kelsey Brooks

| | Lab Id: | 565814-0 | 25 | 565814-026 | | 565814-027 | | 565814-028 | | 565814-029 | | 565814-0 | 30 |
|---------------------|------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|-------|-------------|------|
| Analysis Requested | Field Id: | S-4 1-2 | | S-4 2-3 | | S-4 3-4 | | S-4 4-5 | | S-4 5-6 | | S-4 6-7 | |
| Analysis Requesieu | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | |
| | Sampled: | Oct-13-17 1 | 3:26 | Oct-13-17 1 | 3:28 | Oct-13-17 1 | 3:30 | Oct-13-17 1 | 3:34 | Oct-13-17 1 | 13:36 | Oct-13-17 1 | 3:38 |
| Chloride by EPA 300 | Extracted: | Oct-18-17 1 | 7:30 | Oct-19-17 1 | 2:10 |
| | Analyzed: | Oct-19-17 0 | 7:07 | Oct-19-17 0 | 7:14 | Oct-19-17 0 | 7:22 | Oct-19-17 0 | 7:30 | Oct-19-17 (| 7:37 | ** ** ** * | kajk |
| | Units/RL: | mg/kg | RL | mg/kg | RL |
| Chloride | | 51.4 | 4.90 | 44.0 | 4.96 | 16.3 | 4.94 | 28.9 | 4.93 | 19.5 | 4.95 | 7.01 | 4.95 |

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Larson & Associates, Midland, TX Project Name: Chevron Salado Draw Page 26 of

Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565814-0 | 31 | 565814-03 | 32 | 565814-0 | 33 | 565814-0 |)34 | 565814-0 |)35 | 565814-0 | 36 |
|-----------------------------|------------|-------------|------|-------------|---------|-------------|------|-----------|-------|-----------|-------|-------------|------|
| Analysis Paguastad | Field Id: | S-4 7-8 | ; | S-2 0-1 | | S-2 1-2 | | S-2 2-3 | 3 | S-2 3- | 4 | S-2 4-5 | |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-13-17 1 | 3:40 | Oct-13-17 1 | 3:55 | Oct-13-17 1 | 3:59 | Oct-13-17 | 14:02 | Oct-13-17 | 14:11 | Oct-13-17 1 | 4:13 |
| BTEX by EPA 8021B | Extracted: | | | Oct-18-17 1 | 2:00 | | | | | | | | |
| | Analyzed: | | | Oct-18-17 2 | 1:05 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Benzene | | | | < 0.00198 | 0.00198 | | | | | | | | |
| Toluene | | | | | 0.00198 | | | | | | | | |
| Ethylbenzene | | | | | 0.00198 | | | | | | | | |
| m,p-Xylenes | | | | | 0.00397 | | | | | | | | |
| o-Xylene | | | | | 0.00198 | | | | | | | | |
| Total Xylenes | | | | | 0.00198 | | | | | | | | |
| Total BTEX | | | | < 0.00198 | 0.00198 | | | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 | 12:10 | Oct-19-17 | 12:10 | Oct-19-17 1 | 2:10 |
| | Analyzed: | ** ** ** | ** | ** ** ** | * | Oct-19-17 1 | 2:10 | Oct-19-17 | 12:17 | Oct-19-17 | 12:40 | Oct-19-17 1 | 2:48 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <4.97 | 4.97 | 41.1 | 4.95 | 109 | 4.96 | 474 | 4.97 | 673 | 4.97 | 2030 | 24.8 |
| TPH By SW8015 Mod | Extracted: | | | Oct-18-17 1 | 1:00 | | | | | | | | |
| | Analyzed: | | | Oct-18-17 1 | 8:56 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Gasoline Range Hydrocarbons | | | | <15.0 | 15.0 | | | | | | | | |
| Diesel Range Organics | | | | <15.0 | 15.0 | | | | | | | | |
| Oil Range Hydrocarbons | | | | <15.0 | 15.0 | | | | | | | | |
| Total TPH | | | | <15.0 | 15.0 | | | | | | | | |

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Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw Page 27 of 1

Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17

Project Manager: Kelsey Brooks

| | Lab Id: | 565814-0 | 37 | 565814-0 | 138 | 565814-0 | 30 | 565814-0 | M0 | 565814-0 | м1 | 565814-0 | 142 |
|-----------------------------|------------|-------------|-------|-----------|-------|-------------|---------|-------------|-------|-----------|-------|-------------|-------|
| | Field Id: | S-2 5-6 | | S-2 6-7 | | S-12 0- | | S-12 1- | - | S-12 2- | | S-12 3- | |
| Analysis Requested | | 3-2 3-0 |) | 3-2 0-7 | ' | 5-12 0- | · | 3-12 1- | 2 | 3-12 2- | 3 | 3-12 3- | 4 |
| _ | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-13-17 1 | 4:18 | Oct-13-17 | 14:21 | Oct-12-17 1 | 2:30 | Oct-12-17 | 12:30 | Oct-12-17 | 12:30 | Oct-12-17 1 | 12:30 |
| BTEX by EPA 8021B | Extracted: | acted: | | | | Oct-18-17 1 | 2:00 | | | | | | |
| | Analyzed: | | | | | Oct-18-17 2 | 1:24 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Benzene | | | | | | < 0.00200 | 0.00200 | | | | | | |
| Toluene | | | | | | < 0.00200 | 0.00200 | | | | | | |
| Ethylbenzene | | | | | | | 0.00200 | | | | | | |
| m,p-Xylenes | | | | | | | 0.00399 | | | | | | |
| o-Xylene | | | | | | | 0.00200 | | | | | | |
| Total Xylenes | | | | | | | 0.00200 | | | | | | |
| Total BTEX | | | | | | < 0.00200 | 0.00200 | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 | 2:10 | Oct-19-17 | 12:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 | 2:10 | Oct-19-17 1 | 12:10 |
| | Analyzed: | Oct-19-17 | 12:56 | Oct-19-17 | 13:04 | Oct-19-17 1 | 3:11 | Oct-19-17 1 | 3:19 | Oct-19-17 | 3:42 | Oct-19-17 1 | 13:50 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 5060 | 49.4 | 1240 | 24.8 | 13.3 | 4.97 | 16.9 | 4.97 | 14.4 | 4.96 | 8.10 | 4.95 |
| TPH By SW8015 Mod | Extracted: | | | | | Oct-18-17 1 | 1:00 | | | | | | |
| | Analyzed: | | | | | Oct-18-17 1 | 9:17 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons | | | | | | <15.0 | 15.0 | | | | | | |
| Diesel Range Organics | | | | | | <15.0 | 15.0 | | | | | | |
| Oil Range Hydrocarbons | | | | | | <15.0 | 15.0 | | | | | | |
| Total TPH | | | | | | <15.0 | 15.0 | | | | | | |

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Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Chevron Salado Draw **Project Location:**

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 Project Manager: Kelsey Brooks

| | Lab Id: | 565814-0 |)43 | 565814-0 |)44 | 565814-0 | 45 | 565814-0 | 46 | 565814-0 | 47 | 565814-0 | 48 |
|-----------------------------|------------|-----------|-------|-----------|-------|-------------|---------|-------------|------|-------------|------|-------------|------|
| Analusia Dogunated | Field Id: | S-12 4- | 5 | S-12 5- | 6 | S-11 0- | 1 | S-11 1- | 2 | S-11 2- | 3 | S-11 3-4 | 4 |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-12-17 | 12:30 | Oct-12-17 | 12:30 | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 3:00 | Oct-12-17 | 3:00 | Oct-12-17 1 | 3:00 |
| BTEX by EPA 8021B | Extracted: | | | | | Oct-18-17 1 | 2:00 | | | | | | |
| | Analyzed: | | | | | Oct-18-17 2 | 1:43 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Benzene | · | | | | | | 0.00197 | | | | | | |
| Toluene | | | | | | | 0.00197 | | | | | | |
| Ethylbenzene | | | | | | | 0.00197 | | | | | | |
| m,p-Xylenes | | | | | | < 0.00394 | 0.00394 | | | | | | |
| o-Xylene | | | | | | < 0.00197 | 0.00197 | | | | | | |
| Total Xylenes | | | | | | < 0.00197 | 0.00197 | | | | | | |
| Total BTEX | | | | | | < 0.00197 | 0.00197 | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 | 12:10 | Oct-19-17 | 12:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 |
| | Analyzed: | Oct-19-17 | 14:13 | Oct-19-17 | 14:20 | Oct-19-17 1 | 4:28 | Oct-19-17 1 | 4:36 | Oct-19-17 1 | 4:43 | Oct-19-17 1 | 4:51 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 69.1 | 4.97 | 26.8 | 4.96 | 13.3 | 4.94 | 61.8 | 4.96 | 4410 | 49.3 | 10200 | 98.6 |
| TPH By SW8015 Mod | Extracted: | | | | | Oct-18-17 1 | 1:00 | | | | | | |
| | Analyzed: | | | | | Oct-18-17 1 | 9:37 | | | | | | |
| | Units/RL: | | | | | mg/kg | RL | | | | | | |
| Gasoline Range Hydrocarbons | , | | | | | <15.0 | 15.0 | | | | | | |
| Diesel Range Organics | | | | | | <15.0 | 15.0 | | | | | | |
| Oil Range Hydrocarbons | | | | | | <15.0 | 15.0 | | | | | | |
| Total TPH | | | | | | <15.0 | 15.0 | | | | | | |

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Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Chevron Salado Draw **Project Location:**

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 Project Manager: Kelsey Brooks

| | Lab Id: | 565814-0 | 49 | 565814-0 | 565814-050 | | 565814-051 | | 52 | 565814-0 | 53 | 565814-0 | 054 |
|---------------------|------------|-------------|------|-------------|------------|-------------|------------|-------------|------|-------------|------|-------------|-------|
| Analysis Requested | Field Id: | S-11 4-5 | 5 | S-11 5-6 | | S-11 6-7 | | S-11 7-8 | | S-11 8-9 | | S-11 9-1 | 0 |
| Analysis Requesieu | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 13:00 |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 |
| | Analyzed: | Oct-19-17 1 | 4:59 | Oct-19-17 1 | 5:45 | Oct-19-17 1 | 6:08 | Oct-19-17 1 | 6:15 | Oct-19-17 1 | 6:23 | Oct-19-17 1 | 6:31 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2890 | 25.0 | 210 | 4.99 | 12.9 | 5.00 | 9.37 | 4.93 | <4.92 | 4.92 | 26.7 | 4.97 |

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Knis Roah Kelsey Brooks



Larson & Associates, Midland, TX

Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565814-0 | 55 | 565814-0 | 56 | 565814-03 | 57 | 565814-0 | 58 | 565814-0 |)59 | 565814-0 | 060 |
|-----------------------------|------------|-------------|------|-------------|---------|-------------|------|-------------|------|-----------|-------|-------------|-------|
| An alonia De anesta I | Field Id: | S-11 10- | 11 | S-10 0- | 1 | S-10 1-2 | 2 | S-10 2-3 | 3 | S-10 3- | 4 | S-10 4- | 5 |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-12-17 1 | 3:00 | Oct-12-17 1 | 4:00 | Oct-12-17 1 | 4:00 | Oct-12-17 1 | 4:00 | Oct-12-17 | 14:00 | Oct-12-17 1 | 14:00 |
| BTEX by EPA 8021B | Extracted: | | | Oct-18-17 1 | 2:00 | | | | | | | | |
| | Analyzed: | | | Oct-18-17 2 | 2:01 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Benzene | | | | < 0.00195 | 0.00195 | | | | | | | | |
| Toluene | | | | | 0.00195 | | | | | | | | |
| Ethylbenzene | | | | | 0.00195 | | | | | | | | |
| m,p-Xylenes | | | | | 0.00389 | | | | | | | | |
| o-Xylene | | | | | 0.00195 | | | | | | | | |
| Total Xylenes | | | | < 0.00195 | 0.00195 | | | | | | | | |
| Total BTEX | | | | < 0.00195 | 0.00195 | | | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 | 2:10 | Oct-19-17 1 | 2:10 |
| | Analyzed: | Oct-19-17 1 | 6:54 | Oct-19-17 1 | 7:02 | Oct-19-17 1 | 7:09 | Oct-19-17 1 | 7:17 | Oct-19-17 | 7:25 | Oct-19-17 1 | 7:32 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 95.9 | 4.99 | 40.2 | 4.92 | 28.6 | 4.95 | 16.6 | 4.94 | <4.97 | 4.97 | 5.73 | 4.92 |
| TPH By SW8015 Mod | Extracted: | | | Oct-18-17 1 | 1:00 | | | | | | ĺ | | |
| | Analyzed: | | | Oct-18-17 1 | 9:57 | | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | | |
| Gasoline Range Hydrocarbons | | | | <15.0 | 15.0 | | | | | | | | |
| Diesel Range Organics | | | | <15.0 | 15.0 | | | | | | | | |
| Oil Range Hydrocarbons | | | | <15.0 | 15.0 | | | | | | | | |
| Total TPH | | | | <15.0 | 15.0 | | | | | | | | |

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Kelsey Brooks Project Manager



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw Page 31 of 183

Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Wed Oct-18-17 09:00 am

Report Date: 20-OCT-17 **Project Manager:** Kelsey Brooks

| | | | | | | 7.70110 | | | - 1 | | | |
|-----------------------------|--------------|-------------|-------|------------------|---------|-------------|------|-------------|------|--|-----|--|
| | Lab Id: | 565814-0 | 61 | 565814-0 | 062 | 565814-0 | 63 | 565814-0 | 64 | | | |
| Analysis Requested | Field Id: | S-10 5-6 | 5 | S-8 0-1 | l | S-8 1-2 | ! | S-8 2-3 | | | | |
| Timutysis Requested | Depth: | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | | | |
| | Sampled: | Oct-12-17 1 | 4:00 | Oct-12-17 1 | 15:10 | Oct-12-17 1 | 5:10 | Oct-12-17 | 5:10 | | | |
| BTEX by EPA 8021B | Extracted: | | | Oct-18-17 1 | 2:00 | | | | | | | |
| | Analyzed: | | | Oct-18-17 2 | 22:20 | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | |
| Benzene | | | | < 0.00200 | 0.00200 | | | | | | | |
| Toluene | | | | < 0.00200 | 0.00200 | | | | | | | |
| Ethylbenzene | | | | < 0.00200 | 0.00200 | | | | | | | |
| m,p-Xylenes | | | | <0.00399 0.00399 | | | | | | | | |
| o-Xylene | | | | < 0.00200 | 0.00200 | | | | | | | |
| Total Xylenes | | | | < 0.00200 | 0.00200 | | | | | | | |
| Total BTEX | | | | < 0.00200 | 0.00200 | | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | Oct-19-17 1 | 2:10 | | | |
| | Analyzed: | Oct-19-17 1 | 7:55 | Oct-19-17 1 | 8:03 | Oct-19-17 1 | 8:26 | Oct-19-17 1 | 8:34 | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | |
| Chloride | | <4.92 | 4.92 | 220 | 4.91 | 3150 | 24.9 | 533 | 4.94 | | | |
| TPH By SW8015 Mod | Extracted: | | | Oct-18-17 1 | 1:00 | | | | | | | |
| | Analyzed: | | | Oct-18-17 2 | 20:18 | | | | | | | |
| | Units/RL: | | | mg/kg | RL | | | | | | | |
| Gasoline Range Hydrocarbons | | | | <15.0 | 15.0 | | | | | | | |
| Diesel Range Organics | | | | <15.0 | 15.0 | | | | | | | |
| Oil Range Hydrocarbons | Iydrocarbons | | <15.0 | 15.0 | | | | | | | | |
| Total TPH | | · · | | <15.0 | 15.0 | | | | | | · · | |

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks Project Manager

Analytical Report 565814

for Larson & Associates

Project Manager: Mark Larson Chevron Salado Draw

20-OCT-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





20-OCT-17

Project Manager: Mark Larson Larson & Associates

P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No(s): 565814

Chevron Salado Draw

Project Address: Chevron Salado Draw

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) 565814. 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. 565814 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,

Kelsey Brooks

Knus Roah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 565814

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Larson & Associates, Midland, TX

Chevron Salado Draw

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| S-9 0-1 | S | 10-13-17 11:15 | | 565814-001 |
| S-9 1-2 | S | 10-13-17 11:17 | | 565814-002 |
| S-9 2-3 | S | 10-13-17 11:22 | | 565814-003 |
| S-9 3-4 | S | 10-13-17 11:25 | | 565814-004 |
| S-1 0-1 | S | 10-13-17 11:34 | | 565814-005 |
| S-1 1-2 | S | 10-13-17 11:38 | | 565814-006 |
| S-1 2-3 | S | 10-13-17 11:41 | | 565814-007 |
| S-1 3-4 | S | 10-13-17 11:44 | | 565814-008 |
| S-1 4-5 | S | 10-13-17 11:49 | | 565814-009 |
| S-1 5-6 | S | 10-13-17 11:52 | | 565814-010 |
| S-1 6-7 | S | 10-13-17 11:55 | | 565814-011 |
| S-1 7-8 | S | 10-13-17 12:00 | | 565814-012 |
| S-3 0-1 | S | 10-13-17 12:40 | | 565814-013 |
| S-3 1-2 | S | 10-13-17 12:42 | | 565814-014 |
| S-3 2-3 | S | 10-13-17 12:44 | | 565814-015 |
| S-3 3-4 | S | 10-13-17 12:46 | | 565814-016 |
| S-3 4-5 | S | 10-13-17 12:56 | | 565814-017 |
| S-3 5-6 | S | 10-13-17 12:57 | | 565814-018 |
| S-3 6-7 | S | 10-13-17 12:59 | | 565814-019 |
| S-3 7-8 | S | 10-13-17 13:10 | | 565814-020 |
| S-3 8-9 | S | 10-13-17 13:13 | | 565814-021 |
| S-3 9-10 | S | 10-13-17 13:13 | | 565814-022 |
| S-3 10-11 | S | 10-13-17 13:15 | | 565814-023 |
| S-4 0-1 | S | 10-13-17 13:24 | | 565814-024 |
| S-4 1-2 | S | 10-13-17 13:26 | | 565814-025 |
| S-4 2-3 | S | 10-13-17 13:28 | | 565814-026 |
| S-4 3-4 | S | 10-13-17 13:30 | | 565814-027 |
| S-4 4-5 | S | 10-13-17 13:34 | | 565814-028 |
| S-4 5-6 | S | 10-13-17 13:36 | | 565814-029 |
| S-4 6-7 | S | 10-13-17 13:38 | | 565814-030 |
| S-4 7-8 | S | 10-13-17 13:40 | | 565814-031 |
| S-2 0-1 | S | 10-13-17 13:55 | | 565814-032 |
| S-2 1-2 | S | 10-13-17 13:59 | | 565814-033 |
| S-2 2-3 | S | 10-13-17 14:02 | | 565814-034 |
| S-2 3-4 | S | 10-13-17 14:11 | | 565814-035 |
| S-2 4-5 | S | 10-13-17 14:13 | | 565814-036 |
| S-2 5-6 | S | 10-13-17 14:18 | | 565814-037 |
| S-2 6-7 | S | 10-13-17 14:21 | | 565814-038 |
| S-12 0-1 | S | 10-12-17 12:30 | | 565814-039 |
| S-12 1-2 | S | 10-12-17 12:30 | | 565814-040 |
| S-12 2-3 | S | 10-12-17 12:30 | | 565814-041 |
| S-12 3-4 | S | 10-12-17 12:30 | | 565814-042 |
| S-12 4-5 | S | 10-12-17 12:30 | | 565814-043 |
| | | | | |



Sample Cross Reference 565814



Larson & Associates, Midland, TX

Chevron Salado Draw

| S-12 5-6 | S | 10-12-17 12:30 | 565814-044 |
|------------|---|----------------|------------|
| S-11 0-1 | S | 10-12-17 13:00 | 565814-045 |
| S-11 1-2 | S | 10-12-17 13:00 | 565814-046 |
| S-11 2-3 | S | 10-12-17 13:00 | 565814-047 |
| S-11 3-4 | S | 10-12-17 13:00 | 565814-048 |
| S-11 4-5 | S | 10-12-17 13:00 | 565814-049 |
| S-11 5-6 | S | 10-12-17 13:00 | 565814-050 |
| S-11 6-7 | S | 10-12-17 13:00 | 565814-051 |
| S-11 7-8 | S | 10-12-17 13:00 | 565814-052 |
| S-11 8-9 | S | 10-12-17 13:00 | 565814-053 |
| S-11 9-10 | S | 10-12-17 13:00 | 565814-054 |
| S-11 10-11 | S | 10-12-17 13:00 | 565814-055 |
| S-10 0-1 | S | 10-12-17 14:00 | 565814-056 |
| S-10 1-2 | S | 10-12-17 14:00 | 565814-057 |
| S-10 2-3 | S | 10-12-17 14:00 | 565814-058 |
| S-10 3-4 | S | 10-12-17 14:00 | 565814-059 |
| S-10 4-5 | S | 10-12-17 14:00 | 565814-060 |
| S-10 5-6 | S | 10-12-17 14:00 | 565814-061 |
| S-8 0-1 | S | 10-12-17 15:10 | 565814-062 |
| S-8 1-2 | S | 10-12-17 15:10 | 565814-063 |
| S-8 2-3 | S | 10-12-17 15:10 | 565814-064 |
| | | | |

CASE NARRATIVE

Client Name: Larson & Associates Project Name: Chevron Salado Draw

Project ID: Report Date: 20-OCT-17 Work Order Number(s): 565814 Date Received: 10/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3030943 BTEX by EPA 8021B

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





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-9 0-1 Matrix:

Result

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-001

Date Collected: 10.13.17 11.15

Prep Method: E300P

Analysis Date

10.18.17 16.39

Analytical Method: Chloride by EPA 300

Cas Number

16887-00-6

% Moisture:

Tech:

MNV

RL

4.99

Basis:

Wet Weight

Analyst: Seq Number: 3030886

Parameter

Chloride

MNV

Date Prep:

37.6

10.18.17 13.20

Units

mg/kg

Dil

1

Flag

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 16.54 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 16.54 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 16.54 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 16.54 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 103 | % | 70-135 | 10.18.17 16.54 | | |
| o-Terphenyl | | 84-15-1 | 100 | % | 70-135 | 10.18.17 16.54 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-9 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-001

Date Collected: 10.13.17 11.15

Prep Method: SW5030B

% Moisture:

Tech: ALJ

Analyst:

ALJ

Analytical Method: BTEX by EPA 8021B

10.18.17 12.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00400 | 0.00400 | | mg/kg | 10.18.17 19.50 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 19.50 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 101 | % | 80-120 | 10.18.17 19.50 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 93 | % | 80-120 | 10.18.17 19.50 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-9 1-2**

Matrix:

Soil

10.18.17 13.20

Date Received:10.18.17 09.00

Lab Sample Id: 565814-002

Analytical Method: Chloride by EPA 300

Date Collected: 10.13.17 11.17

Prep Method: E300P

% Moisture:

Tech: MNV

Analyst:

MNV Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 23.6 | 4.90 | mg/kg | 10.18.17 17.02 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-9 2-3 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-003

Date Collected: 10.13.17 11.22

Prep Method: E300P

% Moisture:

Analytical Method: Chloride by EPA 300 Tech:

MNV

MNVDate Prep:

10.18.17 13.20

Basis:

Wet Weight

Seq Number: 3030886

Analyst:

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 30.8 | 5.00 | mg/kg | 10.18.17 17.09 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-9 3-4**

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-004

Date Collected: 10.13.17 11.25

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV MNV

Analytical Method: Chloride by EPA 300

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 24.7 | 4.92 | mg/kg | 10.18.17 17.17 | | 1 |





10

Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-1 0-1 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-005

Date Collected: 10.13.17 11.34

Prep Method: E300P

% Moisture:

Tech:

MNV MNV

Analytical Method: Chloride by EPA 300

5940

Result

Cas Number

16887-00-6

10.18.17 13.20

Basis:

Units

mg/kg

Wet Weight

Analyst:

Parameter

Chloride

Seq Number: 3030886

Date Prep:

49.1

RL

Analysis Date Flag Dil

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

10.18.17 17.25

% Moisture:

Tech: Analyst: ARM ARM

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 17.56 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 17.56 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 17.56 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 17.56 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 106 | % | 70-135 | 10.18.17 17.56 | | |
| o-Terphenyl | | 84-15-1 | 101 | % | 70-135 | 10.18.17 17.56 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-1 0-1**

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-005

Date Collected: 10.13.17 11.34

Prep Method: SW5030B

0/ 3.5 . .

Tech:

ALJ

Analytical Method: BTEX by EPA 8021B

% Moi

% Moisture:

Analyst:

ALJ

Date Prep: 10.18.17 12.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| Toluene | 108-88-3 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00392 | 0.00392 | | mg/kg | 10.18.17 20.09 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| Total BTEX | | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.09 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 101 | % | 80-120 | 10.18.17 20.09 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 94 | % | 80-120 | 10.18.17 20.09 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 1-2

Matrix:

Soil

10.18.17 13.20

Date Received:10.18.17 09.00

Wet Weight

Lab Sample Id: 565814-006

Date Collected: 10.13.17 11.38

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV Tech:

MNV

Date Prep:

Basis:

% Moisture:

Seq Number: 3030886

Analyst:

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 5440 | 49.4 | mg/kg | 10.18.17 17.48 | | 10 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 2-3 Lab Sample Id: 565814-007

2-3

Matrix:

Soil

Date Received:10.18.17 09.00

Date Collected: 10.13.17 11.41

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV

Analytical Method: Chloride by EPA 300

MNV Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 140 | 4.96 | mg/kg | 10.18.17 17.56 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 3-4

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-008

Date Collected: 10.13.17 11.44

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV MNV

Analytical Method: Chloride by EPA 300

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 32.9 | 4.90 | mg/kg | 10.18.17 18.03 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 4-5 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-009

Analytical Method: Chloride by EPA 300

Date Collected: 10.13.17 11.49

Prep Method: E300P

MNV Tech:

% Moisture:

MNVAnalyst:

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 448 | 5.00 | mg/kg | 10.18.17 18.11 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 5-6 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-010

Date Collected: 10.13.17 11.52

Prep Method: E300P

% Moisture:

Analytical Method: Chloride by EPA 300

MNV MNV

10.18.17 13.20 Date Prep:

Basis:

Wet Weight

Seq Number: 3030886

Tech:

Analyst:

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 26.0 | 4.94 | mg/kg | 10.18.17 18.19 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-1 6-7 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-011

Date Collected: 10.13.17 11.55

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

MNV Tech: MNVAnalyst:

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 33.7 | 4.96 | mg/kg | 10.18.17 18.26 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-17-8

Seq Number: 3030886

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-012

Date Collected: 10.13.17 12.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MNV

% Moisture:

MNVAnalyst:

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 27.3 | 5.00 | mg/kg | 10.18.17 18.49 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 0-1 Matrix:

Date Prep:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-013

Date Collected: 10.13.17 12.40

Prep Method: E300P

Tech: MNV % Moisture:

MNV

Analyst:

10.18.17 13.20

Basis:

Wet Weight

Seq Number: 3030886

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 3280 | 25.0 | mg/kg | 10.18.17 18.57 | | 5 |

Analytical Method: TPH By SW8015 Mod

Analytical Method: Chloride by EPA 300

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.16 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 18.16 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.16 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.16 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 89 | % | 70-135 | 10.18.17 18.16 | | |
| o-Terphenyl | | 84-15-1 | 86 | % | 70-135 | 10.18.17 18.16 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-013

Date Collected: 10.13.17 12.40

Prep Method: SW5030B

% Moisture:

Tech:

Analyst:

ALJ

ALJ

Analytical Method: BTEX by EPA 8021B

10.18.17 12.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| Toluene | 108-88-3 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00393 | 0.00393 | | mg/kg | 10.18.17 20.27 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| Total BTEX | | < 0.00196 | 0.00196 | | mg/kg | 10.18.17 20.27 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 93 | % | 80-120 | 10.18.17 20.27 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 96 | % | 80-120 | 10.18.17 20.27 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 1-2 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-014

Date Collected: 10.13.17 12.42

Prep Method: E300P

Tech:

MNV

Analytical Method: Chloride by EPA 300

% Moisture:

MNVAnalyst:

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 339 | 4.99 | mg/kg | 10.18.17 19.20 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 2-3 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-015

Date Collected: 10.13.17 12.44

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

% Moisture:

Tech:

Analyst:

MNV

10.18.17 13.20 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 96.0 | 4.99 | mg/kg | 10.18.17 19.28 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 3-4 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-016

Date Collected: 10.13.17 12.46

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

% Moisture:

MNVAnalyst:

Tech:

10.18.17 13.20 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 89.5 | 4.97 | mg/kg | 10.18.17 19.35 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 4-5 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-017

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 12.56

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

Date Prep:

10.18.17 13.20

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 571 | 4.97 | mg/kg | 10.18.17 19.43 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 5-6 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-018

Date Collected: 10.13.17 12.57

Prep Method: E300P

% Moisture:

Tech:

Analyst:

MNV MNV

Analytical Method: Chloride by EPA 300

Date Prep: 10.18.17 13.20 Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 45.9 | 4.90 | mg/kg | 10.18.17 19.51 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 6-7 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-019

Date Collected: 10.13.17 12.59

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: MNV MNV

Date Prep: 10.18.17 13.20 Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 26.0 | 4.95 | mg/kg | 10.18.17 19.58 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

10.18.17 13.20

Sample Id: S-3 7-8

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-020

Date Collected: 10.13.17 13.10

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

MNV Tech:

Analyst:

MNVDate Prep: Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6.19 | 4.99 | mg/kg | 10.18.17 20.06 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 8-9 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-021

Date Collected: 10.13.17 13.13

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

MNV Tech:

Analyst:

MNV

10.18.17 17.30 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 179 | 4.98 | mg/kg | 10.19.17 06.20 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 9-10 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-022

Date Collected: 10.13.17 13.13

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MNV

% Moisture:

MNVAnalyst:

Seq Number: 3030843

10.18.17 17.30 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 5.27 | 4.93 | mg/kg | 10.19.17 06.28 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-3 10-11 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-023

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 13.15

Prep Method: E300P

Analyst:

% Moisture:

MNV Tech:

10.18.17 17.30 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 7.05 | 4.91 | mg/kg | 10.19.17 06.51 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-4 0-1**

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-024

Date Collected: 10.13.17 13.24

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech:

MNV

Wet Weight

Analyst: MNV

Date Prep:

10.18.17 17.30

Basis:

wet weight

Seq Number: 3030843

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 216 | 4.94 | mg/kg | 10.19.17 06.59 | | 1 |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM ARM

Date Prep: 10.18.17 11.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.36 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 18.36 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.36 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.36 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 110 | % | 70-135 | 10.18.17 18.36 | | |
| o-Terphenyl | | 84-15-1 | 104 | % | 70-135 | 10.18.17 18.36 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-4 0-1

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-024

Date Collected: 10.13.17 13.24

Prep Method: SW5030B

% Moisture:

Tech: AI

Analyst:

ALJ ALJ

Analytical Method: BTEX by EPA 8021B

Date Prep: 10.18.17 12.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| Toluene | 108-88-3 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00394 | 0.00394 | | mg/kg | 10.18.17 20.46 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| Total BTEX | | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 20.46 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 98 | % | 80-120 | 10.18.17 20.46 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 93 | % | 80-120 | 10.18.17 20.46 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-4 1-2

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-025

Date Collected: 10.13.17 13.26

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

% Moisture:

Tech:

Analyst:

MNV

Date Prep: 10.18.17 17.30 Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 51.4 | 4.90 | mg/kg | 10.19.17 07.07 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-4 2-3 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-026

Analytical Method: Chloride by EPA 300

Date Collected: 10.13.17 13.28

Prep Method: E300P

MNV Tech:

% Moisture:

MNVAnalyst:

Date Prep: 10.18.17 17.30 Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 44.0 | 4.96 | mg/kg | 10.19.17 07.14 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-4 3-4 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-027

Analytical Method: Chloride by EPA 300

Date Collected: 10.13.17 13.30

Prep Method: E300P

MNV

% Moisture:

Tech: MNV

Analyst:

Date Prep:

10.18.17 17.30

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16.3 | 4.94 | mg/kg | 10.19.17 07.22 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-4 4-5 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-028

Date Collected: 10.13.17 13.34

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV MNV

Analytical Method: Chloride by EPA 300

Date Prep: 10.18.17 17.30 Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 28.9 | 4.93 | mg/kg | 10.19.17 07.30 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-4 5-6 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-029

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 13.36

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

10.18.17 17.30 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 19.5 | 4.95 | mg/kg | 10.19.17 07.37 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-4 6-7**

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-030

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 13.38

Prep Method: E300P

% Moisture:

Tech: MNV

Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 7.01 | 4.95 | mg/kg | 10.19.17 11.31 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-47-8 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-031

Date Collected: 10.13.17 13.40

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

MNV

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.97 | 4.97 | mg/kg | 10.19.17 11.54 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-2 0-1

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-032

Date Collected: 10.13.17 13.55

Prep Method: E300P

Tech: MNV

% Moisture:

Tech: Analyst:

MNV

Analytical Method: Chloride by EPA 300

10.19.17 12.10

Basis:

Wet Weight

Seq Number: 3030941

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 41.1
 4.95
 mg/kg
 10.19.17 12.02
 1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 10.18.17 11.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.56 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 18.56 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.56 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 18.56 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 110 | % | 70-135 | 10.18.17 18.56 | | |
| o-Terphenyl | | 84-15-1 | 104 | % | 70-135 | 10.18.17 18.56 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-2 0-1**

Matrix:

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-032

Date Collected: 10.13.17 13.55

Prep Method: SW5030B

% Moisture:

Tech: AL.

Analyst:

ALJ ALJ

Analytical Method: BTEX by EPA 8021B

10.18.17 12.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| Toluene | 108-88-3 | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00397 | 0.00397 | | mg/kg | 10.18.17 21.05 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| Total BTEX | | < 0.00198 | 0.00198 | | mg/kg | 10.18.17 21.05 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 93 | % | 80-120 | 10.18.17 21.05 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 98 | % | 80-120 | 10.18.17 21.05 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-2 1-2**

Matrix:

Soil

10.19.17 12.10

Date Received:10.18.17 09.00

Lab Sample Id: 565814-033

Date Collected: 10.13.17 13.59

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

MNV Date Prep:

% Moisture
Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 109 | 4.96 | mg/kg | 10.19.17 12.10 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-2 2-3**

Matrix:

Soil

10.19.17 12.10

Date Received:10.18.17 09.00

Lab Sample Id: 565814-034

Analytical Method: Chloride by EPA 300

Date Collected: 10.13.17 14.02

Prep Method: E300P

% Moisture:

Tech: MNV

Analyst:

MNV Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 474 | 4.97 | mg/kg | 10.19.17 12.17 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-2 3-4 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-035

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 14.11

Prep Method: E300P

MNV

% Moisture:

Basis:

Tech:

10.19.17 12.10 Date Prep:

Wet Weight

Analyst: Seq Number: 3030941

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 673 | 4.97 | mg/kg | 10.19.17 12.40 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-2 4-5**

Matrix:

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-036

Date Collected: 10.13.17 14.13

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV

Analytical Method: Chloride by EPA 300

MNV

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 2030 | 24.8 | mg/kg | 10.19.17 12.48 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-2 5-6 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-037

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.13.17 14.18

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 5060 | 49.4 | mg/kg | 10.19.17 12.56 | | 10 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

10.19.17 12.10

Sample Id: S-2 6-7 Matrix:

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-038

Date Collected: 10.13.17 14.21

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: MNV MNV

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1240 | 24.8 | mg/kg | 10.19.17 13.04 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-12 0-1 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-039

Date Collected: 10.12.17 12.30

RL

4.97

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

MNV

% Moisture:

MNV Analyst: Seq Number: 3030941

Date Prep:

Result

13.3

10.19.17 12.10

Basis:

mg/kg

Wet Weight

Parameter

Cas Number 16887-00-6 Chloride

Units **Analysis Date**

10.19.17 13.11

Flag Dil 1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.17 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 19.17 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.17 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.17 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 102 | % | 70-135 | 10.18.17 19.17 | | |
| o-Terphenyl | | 84-15-1 | 97 | % | 70-135 | 10.18.17 19.17 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-039

Date Collected: 10.12.17 12.30

Prep Method: SW5030B

% Moisture:

Tech:

Analyst:

ALJ

ALJ

Analytical Method: BTEX by EPA 8021B

10.18.17 12.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 10.18.17 21.24 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 21.24 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 96 | % | 80-120 | 10.18.17 21.24 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 94 | % | 80-120 | 10.18.17 21.24 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 1-2 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-040

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.12.17 12.30

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 16.9 | 4.97 | mg/kg | 10.19.17 13.19 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 2-3

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-041

Date Collected: 10.12.17 12.30

Prep Method: E300P

Tech: Mi

MNV

Analytical Method: Chloride by EPA 300

% Moisture:

Analyst: MNV

Date Prep: 10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 14.4 | 4.96 | mg/kg | 10.19.17 13.42 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 3-4

Matrix: Soil

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-042

Analytical Method: Chloride by EPA 300

Date Collected: 10.12.17 12.30

Prep Method: E300P

% Moisture:

Tech: MNV

Analyst:

MNV

10.19.17 12.10

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 8.10 | 4.95 | mg/kg | 10.19.17 13.50 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 4-5

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-043

Analytical Method: Chloride by EPA 300

Date Collected: 10.12.17 12.30

Prep Method: E300P

% Moisture:

Tech: MNV

Analyst: MNV

Date Prep: 10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 69.1 | 4.97 | mg/kg | 10.19.17 14.13 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-12 5-6

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-044

Analytical Method: Chloride by EPA 300

Date Collected: 10.12.17 12.30

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 26.8 | 4.96 | mg/kg | 10.19.17 14.20 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-045

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

Tech:

MNV

% Moisture:

MNV Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

Seq Number: 3030941

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 13.3 | 4.94 | mg/kg | 10.19.17 14.28 | | 1 |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

Analyst:

ARM

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.37 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 19.37 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.37 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.37 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 100 | % | 70-135 | 10.18.17 19.37 | | |
| o-Terphenyl | | 84-15-1 | 96 | % | 70-135 | 10.18.17 19.37 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-045

Date Collected: 10.12.17 13.00

Prep Method: SW5030B

% Moisture:

Tech:

Analytical Method: BTEX by EPA 8021B ALJ

> Date Prep: 10.18.17 12.00

Basis: Wet Weight

ALJ Analyst: Seq Number: 3030943

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| Toluene | 108-88-3 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00394 | 0.00394 | | mg/kg | 10.18.17 21.43 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| Total BTEX | | < 0.00197 | 0.00197 | | mg/kg | 10.18.17 21.43 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 98 | % | 80-120 | 10.18.17 21.43 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 95 | % | 80-120 | 10.18.17 21.43 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-11 1-2 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-046

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

% Moisture:

Tech: MNVAnalyst:

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 61.8 | 4.96 | mg/kg | 10.19.17 14.36 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-11 2-3

Matrix:

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-047

Date Collected: 10.12.17 13.00

Prep Method: E300P

Tech:

Analytical Method: Chloride by EPA 300

% Moisture:

Basis:

Analyst:

MNV MNV

70 .

10.19.17 12.10

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 4410 | 49.3 | mg/kg | 10.19.17 14.43 | | 10 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 3-4 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-048

Date Collected: 10.12.17 13.00

Prep Method: E300P

MNV

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 10200 | 98.6 | mg/kg | 10.19.17 14.51 | | 20 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 4-5 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-049

Date Collected: 10.12.17 13.00

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

MNV

Analytical Method: Chloride by EPA 300

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2890 | 25.0 | mg/kg | 10.19.17 14.59 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 5-6

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-050

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300 Tech: MNV

· ·

10.19.17 12.10

% Moisture:

Analyst: MNV

Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 210 | 4.99 | mg/kg | 10.19.17 15.45 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 6-7

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-051

Analytical Method: Chloride by EPA 300

Date Collected: 10.12.17 13.00

Prep Method: E300P

Tech: MNV

70 IVI

% Moisture:

Analyst: MNV

Seq Number: 3030944

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 12.9
 5.00
 mg/kg
 10.19.17 16.08
 1





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 7-8 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-052

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech:

MNV

MNVAnalyst:

Seq Number: 3030944

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 9.37 | 4.93 | mg/kg | 10.19.17 16.15 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-11 8-9**

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-053

MNV

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Basis:

Tech: MNV

Analyst:

Date Prep: 10.19.17 12.10

o Moisture.

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.92 | 4.92 | mg/kg | 10.19.17 16.23 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 9-10 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-054

Date Collected: 10.12.17 13.00

Prep Method: E300P

Analyst:

MNV

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 26.7 | 4.97 | mg/kg | 10.19.17 16.31 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-11 10-11 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-055

Analytical Method: Chloride by EPA 300

Date Collected: 10.12.17 13.00

Prep Method: E300P

MNV Tech:

% Moisture:

MNV

Analyst:

10.19.17 12.10 Date Prep:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 95.9 | 4.99 | mg/kg | 10.19.17 16.54 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-10 0-1**

Matrix:

Date Prep:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-056

Date Collected: 10.12.17 14.00

Prep Method: E300P

1 many trous systems

Analytical Method: Chloride by EPA 300

rep Method. L

Tech:

MNV

% Moisture:

Analyst:

MNV

10.19.17 12.10

Basis:

Wet Weight

Seq Number: 3030944

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 40.2 | 4.92 | mg/kg | 10.19.17 17.02 | | 1 |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech:
Analyst:

ARM ARM

Date Prep: 10.18.17 11.00

Basis:

% Moisture:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.57 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 19.57 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.57 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 19.57 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 103 | % | 70-135 | 10.18.17 19.57 | | |
| o-Terphenyl | | 84-15-1 | 98 | % | 70-135 | 10.18.17 19.57 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-10 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-056

Date Collected: 10.12.17 14.00

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

ALJ Analyst:

Analytical Method: BTEX by EPA 8021B

10.18.17 12.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| Toluene | 108-88-3 | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00389 | 0.00389 | | mg/kg | 10.18.17 22.01 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| Total BTEX | | < 0.00195 | 0.00195 | | mg/kg | 10.18.17 22.01 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 93 | % | 80-120 | 10.18.17 22.01 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 97 | % | 80-120 | 10.18.17 22.01 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-10 1-2 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-057

Date Collected: 10.12.17 14.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

MNV

% Moisture:

Tech:

Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 28.6 | 4.95 | mg/kg | 10.19.17 17.09 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-10 2-3 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-058

Date Collected: 10.12.17 14.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech:

MNV

MNVAnalyst:

Seq Number: 3030944

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16.6 | 4.94 | mg/kg | 10.19.17 17.17 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-10 3-4 Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-059

Date Collected: 10.12.17 14.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

% Moisture:

Tech: MNV

Analyst:

10.19.17 12.10

Wet Weight

Date Prep:

Basis:

| Parameter | Cas Number | Result | RL | Un | nits | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-----|------|----------------------|------|-----|
| Chloride | 16887-00-6 | <4.97 | 4.97 | mg/ | /kg | 10.19.17 17.25 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-10 4-5

Matrix:

Date Received:10.18.17 09.00

Lab Sample Id: 565814-060

Date Collected: 10.12.17 14.00

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

MNV

Date Prep: 10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 5.73 | 4.92 | mg/kg | 10.19.17 17.32 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-10 5-6 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-061

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.12.17 14.00

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.92 | 4.92 | mg/kg | 10.19.17 17.55 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 0-1 Matrix: Soil Date Received:10.18.17 09.00

Lab Sample Id: 565814-062

Date Collected: 10.12.17 15.10

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

MNV

% Moisture:

Tech:

Analyst:

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

Seq Number: 3030944

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 220 | 4.91 | mg/kg | 10.19.17 18.03 | | 1 |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

10.18.17 11.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.18.17 20.18 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.18.17 20.18 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.18.17 20.18 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.18.17 20.18 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 105 | % | 70-135 | 10.18.17 20.18 | | |
| o-Terphenyl | | 84-15-1 | 98 | % | 70-135 | 10.18.17 20.18 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 0-1 Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-062

Date Collected: 10.12.17 15.10

Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B ALJ

% Moisture:

Tech:

Date Prep:

10.18.17 12.00 Basis:

Wet Weight

Analyst:

ALJ

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 10.18.17 22.20 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 10.18.17 22.20 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| | | | | Flag | |
|------------|----------|---------------------------------|---|--|-------------------------------------|
| Cas Number | | Units | Limits | | Analysis Date |
| 540-36-3 | 94 | % | 80-120 | 10.18.17 22.20 | |
| 460-00-4 | 101 | % | 80-120 | 10.18.17 22.20 | |
| | 540-36-3 | Cas Number Recovery 540-36-3 94 | Cas Number Recovery Units 540-36-3 94 % | Cas Number 540-36-3Recovery 94Units %Limits 80-120 | 540-36-3 94 % 80-120 10.18.17 22.20 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 1-2

Matrix:

Soil

Date Received:10.18.17 09.00

Lab Sample Id: 565814-063

Date Collected: 10.12.17 15.10

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: MNV MNV

Date Prep:

10.19.17 12.10

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 3150 | 24.9 | mg/kg | 10.19.17 18.26 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 2-3

Matrix:

Soil Date Collected: 10.12.17 15.10 Date Received:10.18.17 09.00

Lab Sample Id: 565814-064

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

MNV Tech:

Analyst:

10.19.17 12.10 Date Prep:

Basis:

Wet Weight

Seq Number: 3030944

MNV

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 533 | 4.94 | mg/kg | 10.19.17 18.34 | | 1 |



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.
- $\boldsymbol{K}\,$ 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.
- **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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 565814

Larson & Associates

Chevron Salado Draw

E300P Analytical Method: Chloride by EPA 300 Prep Method: Seq Number: 3030886 Matrix: Solid Date Prep: 10.18.17

LCS Sample Id: 7632813-1-BKS LCSD Sample Id: 7632813-1-BSD MB Sample Id: 7632813-1-BLK

%RPD MB LCS LCS Limits **RPD** Spike LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 20 10.18.17 16:23 Chloride < 5.00 250 239 96 240 96 90-110 0 mg/kg

Analytical Method: Chloride by EPA 300 E300P Prep Method:

Seq Number: 3030843 Matrix: Solid Date Prep: 10.18.17

LCS Sample Id: MB Sample Id: 7632828-1-BLK 7632828-1-BKS LCSD Sample Id: 7632828-1-BSD

LCS LCS Limits %RPD RPD MB Spike LCSD LCSD Units Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec Chloride < 5.00 250 243 97 240 96 90-110 1 20 mg/kg 10.19.17 03:55

Analytical Method: Chloride by EPA 300

Seq Number: 3030941 Matrix: Solid 10.19.17 Date Prep:

7632899-1-BKS LCS Sample Id: LCSD Sample Id: 7632899-1-BSD MB Sample Id: 7632899-1-BLK

LCS **RPD** MB Spike LCS LCSD LCSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Result Date Amount %Rec Result %Rec 10.19.17 11:16 Chloride < 5.00 250 261 104 262 105 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3030944 Matrix: Solid Date Prep: 10.19.17

LCS Sample Id: 7632901-1-BKS LCSD Sample Id: 7632901-1-BSD MB Sample Id: 7632901-1-BLK

RPD LCS %RPD MB Spike LCS LCSD Limits Units Analysis LCSD Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec Chloride 242 97 97 0 20 10.19.17 15:29 < 5.00 250 242 90-110 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3030886 Matrix: Soil Seq Number: Date Prep: 10.18.17

MS Sample Id: 565814-001 S MSD Sample Id: 565814-001 SD Parent Sample Id: 565814-001

Parent Spike MS MS **MSD** Limits %RPD **RPD** Units Analysis **MSD** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Chloride 37.6 250 283 98 284 99 90-110 0 20 10.18.17 16:46 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3030886 Matrix: Soil Date Prep: 10.18.17

MS Sample Id: 565814-011 S MSD Sample Id: 565814-011 SD Parent Sample Id: 565814-011

Parent Spike MS MS Limits %RPD **RPD** Units Analysis MSD **MSD** Flag **Parameter** Result %Rec Limit Date Result Amount Result %Rec 33.7 248 282 100 283 90-110 0 20 10.18.17 18:34 Chloride 101 mg/kg

Prep Method:

E300P



QC Summary 565814

Larson & Associates

Chevron Salado Draw

Analytical Method: Chloride by EPA 300

Seq Number: 3030843 Matrix: Soil

MS Sample Id: 565841-004 S Parent Sample Id: 565841-004

E300P Prep Method:

Date Prep: 10.18.17 MSD Sample Id: 565841-004 SD

E300P

Prep Method:

%RPD Spike MS MS Limits RPD Parent **MSD MSD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

Chloride 20 10.19.17 06:05 <4.92 246 259 105 256 104 90-110 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3030843 Matrix: Soil Date Prep: 10.18.17

Parent Sample Id: 565870-021 MS Sample Id: 565870-021 S MSD Sample Id: 565870-021 SD

MS MS %RPD RPD Parent Spike MSD **MSD** Limits Units Analysis Flag **Parameter** %Rec Result Amount Result Limit Date Result %Rec Chloride 559 247 768 85 770 85 90-110 0 20 mg/kg 10.19.17 04:18 X

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3030941 Matrix: Soil 10.19.17 Date Prep:

MS Sample Id: 565814-030 S MSD Sample Id: 565814-030 SD Parent Sample Id: 565814-030

MS MSD RPD Parent Spike MS **MSD** Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result %Rec Amount Result %Rec 10.19.17 11:39 Chloride 7.01 248 264 104 263 103 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3030941 Matrix: Soil Date Prep: 10.19.17

MS Sample Id: 565814-040 S MSD Sample Id: 565814-040 SD Parent Sample Id: 565814-040

RPD MS MSD %RPD Parent Spike MS Limits Units Analysis **MSD** Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec Chloride 101 20 10.19.17 13:27 16.9 249 268 271 102 90-110 mg/kg 1

Analytical Method: Chloride by EPA 300

Prep Method: E300P 3030944 Matrix: Soil Seq Number: Date Prep: 10.19.17

MS Sample Id: 565814-050 S MSD Sample Id: 565814-050 SD Parent Sample Id: 565814-050

Parent Spike MS MS Limits %RPD **RPD** Units Analysis **MSD MSD** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Chloride 210 250 442 93 444 94 90-110 0 20 10.19.17 15:52 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3030944 Matrix: Soil Date Prep: 10.19.17

MS Sample Id: 565814-060 S MSD Sample Id: 565814-060 SD Parent Sample Id: 565814-060

Parent Spike MS MS Limits %RPD **RPD** Units Analysis MSD **MSD Parameter** Flag Result %Rec Limit Date Result Amount Result %Rec 10.19.17 17:40 5.73 253 101 251 20 Chloride 246 100 90-110 1 mg/kg

Flag

Flag



QC Summary 565814

Larson & Associates

Chevron Salado Draw

Analytical Method: TPH By SW8015 Mod TX1005P Prep Method: Seq Number: 3030818 Matrix: Solid Date Prep:

10.18.17 LCS Sample Id: 7632853-1-BKS LCSD Sample Id: 7632853-1-BSD MB Sample Id: 7632853-1-BLK

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <15.0 | 1000 | 1020 | 102 | 1090 | 109 | 70-135 | 7 | 35 | mg/kg | 10.18.17 16:12 | |
| Diesel Range Organics | <15.0 | 1000 | 1070 | 107 | 1140 | 114 | 70-135 | 6 | 35 | mg/kg | 10.18.17 16:12 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|------------|------------|-------------|-------------|--------------|--------------|--------|-------|------------------|
| 1-Chlorooctane | 96 | | 108 | | 106 | | 70-135 | % | 10.18.17 16:12 |
| o-Terphenyl | 92 | | 100 | | 95 | | 70-135 | % | 10.18.17 16:12 |

Analytical Method: TPH By SW8015 Mod TX1005P Prep Method:

Seq Number: 3030818 Matrix: Soil Date Prep: 10.18.17 MS Sample Id: 565814-001 S MSD Sample Id: 565814-001 SD 565814-001 Parent Sample Id:

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | |
|-----------------------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|--------------|-------|------------------|--|
| Gasoline Range Hydrocarbons | <15.0 | 999 | 1090 | 109 | 1130 | 113 | 70-135 | 4 | 35 | mg/kg | 10.18.17 17:15 | |
| Diesel Range Organics | <15.0 | 999 | 1160 | 116 | 1170 | 117 | 70-135 | 1 | 35 | mg/kg | 10.18.17 17:15 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1-Chlorooctane | 129 | | 109 | | 70-135 | % | 10.18.17 17:15 |
| o-Terphenyl | 103 | | 106 | | 70-135 | % | 10.18.17 17:15 |

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B Seq Number: 3030943 Matrix: Solid Date Prep: 10.18.17

LCSD Sample Id: 7632948-1-BSD LCS Sample Id: 7632948-1-BKS MB Sample Id: 7632948-1-BLK C-- 21--TOS Timita Amalwaia

| Parameter | MB Result | Spike Amount | Result | %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | Limit | Units | Analysis Date |
|--------------|--------------|-----------------|--------|------|----------------|--------------|--------|------|-------|-------|------------------|
| Benzene | < 0.00197 | 0.0984 | 0.118 | 120 | 0.115 | 116 | 70-130 | 3 | 35 | mg/kg | 10.18.17 18:00 |
| Toluene | < 0.00197 | 0.0984 | 0.109 | 111 | 0.108 | 109 | 70-130 | 1 | 35 | mg/kg | 10.18.17 18:00 |
| Ethylbenzene | < 0.00197 | 0.0984 | 0.111 | 113 | 0.107 | 108 | 71-129 | 4 | 35 | mg/kg | 10.18.17 18:00 |
| m,p-Xylenes | < 0.00394 | 0.197 | 0.221 | 112 | 0.213 | 108 | 70-135 | 4 | 35 | mg/kg | 10.18.17 18:00 |
| o-Xylene | < 0.00197 | 0.0984 | 0.106 | 108 | 0.104 | 105 | 71-133 | 2 | 35 | mg/kg | 10.18.17 18:00 |
| | | | | | | | | | | | |

LCS

| Surrogate | %Rec | Flag | %Rec | Flag | %Rec | Flag | | Date |
|----------------------|------|------|------|------|------|--------|---|----------------|
| 1,4-Difluorobenzene | 87 | | 86 | | 84 | 80-120 | % | 10.18.17 18:00 |
| 4-Bromofluorobenzene | 92 | | 86 | | 91 | 80-120 | % | 10.18.17 18:00 |

LCS

LCSD

LCSD

Limits

Units

Analysis

Surrogate

MB

MB



Seq Number:

QC Summary 565814

Larson & Associates

Chevron Salado Draw

Analytical Method: BTEX by EPA 8021B

3030943 Matrix: Soil

Prep Method: SW5030B Date Prep: 10.18.17

| Parent Sample Id: | 565814-001 | | MS Sar | nple Id: | 565814-00 | 01 S | | MS | D Sample | e Id: 5658 | 814-001 SD | |
|----------------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|--------------|------------|------------------|------|
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
| Benzene | < 0.00200 | 0.0998 | 0.115 | 115 | 0.118 | 119 | 70-130 | 3 | 35 | mg/kg | 10.18.17 18:36 | |
| Toluene | < 0.00200 | 0.0998 | 0.108 | 108 | 0.113 | 114 | 70-130 | 5 | 35 | mg/kg | 10.18.17 18:36 | |
| Ethylbenzene | < 0.00200 | 0.0998 | 0.106 | 106 | 0.110 | 111 | 71-129 | 4 | 35 | mg/kg | 10.18.17 18:36 | |
| m,p-Xylenes | < 0.00399 | 0.200 | 0.210 | 105 | 0.218 | 110 | 70-135 | 4 | 35 | mg/kg | 10.18.17 18:36 | |
| o-Xylene | < 0.00200 | 0.0998 | 0.103 | 103 | 0.106 | 107 | 71-133 | 3 | 35 | mg/kg | 10.18.17 18:36 | |
| Surrogate | | | | AS Rec | MS Flag | MSD %Re | | | imits | Units | Analysis Date | |
| 1,4-Difluorobenzene | | | 9 | 97 | | 100 | | 80 | -120 | % | 10.18.17 18:36 | |
| 4-Bromofluorobenzene | 2 | | 1 | 07 | | 110 | | 80 | -120 | % | 10.18.17 18:36 | |

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Final 1.000

Released to Imaging: 3/31/2022 1:18:3

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11899C



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Larson & Associates

Date/ Time Received: 10/18/2017 09:00:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 10/19/2017

Work Order #: 565814

Temperature Measuring device used: R8

| | Sample Receipt Checklist | Comments |
|--|--|------------------|
| #1 *Temperature of cooler(s)? | | -8.6 |
| #2 *Shipping container in good condition | 1? | Yes |
| #3 *Samples received on ice? | | Yes |
| #4 *Custody Seals intact on shipping co | ntainer/ cooler? | N/A |
| #5 Custody Seals intact on sample bottle | es? | 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 relinq | uished/ received? | Yes |
| #10 Chain of Custody agrees with samp | le 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 indicat | red test(s)? | Yes |
| #16 All samples received within hold tim | e? | Yes |
| #17 Subcontract of sample(s)? | | No |
| #18 Water VOC samples have zero hea | dspace? | N/A |
| * Must be completed for after-hours de Analyst: | elivery of samples prior to placing in | the refrigerator |
| Checklist completed by: | | Date: 10/18/2017 |
| Checklist reviewed by: | Manage & Marage | |



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Thu Oct-19-17 10:30 am

Report Date: 24-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565936-0 | 001 | 565936-0 | 02 | 565936-0 | 03 | 565936-0 | 004 | 565936-0 | 005 | 565936-0 | 06 |
|-----------------------------|------------|-------------|---------|-------------|------|-------------|------|-------------|-------|-------------|-------|-------------|------|
| A malumin D amount of | Field Id: | S-6 0-1 | 1 | S-6 1-2 | | S-6 2-3 | | S-6 3-4 | 1 | S-6 4-5 | 5 | S-6 5-6 | j |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | SOIL | | | SOIL | |
| | Sampled: | Oct-18-17 1 | 12:35 | Oct-18-17 1 | 2:35 | Oct-18-17 1 | 2:35 | Oct-18-17 | 12:35 | Oct-18-17 | 12:40 | Oct-18-17 1 | 2:40 |
| BTEX by EPA 8021B | Extracted: | Oct-20-17 1 | 10:00 | | | | | | | | | | |
| | Analyzed: | Oct-20-17 1 | 17:21 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Benzene | | < 0.00200 | 0.00200 | | | | | | | | | | |
| Toluene | | < 0.00200 | 0.00200 | | | | | | | | | | |
| Ethylbenzene | | < 0.00200 | 0.00200 | | | | | | | | | | |
| m,p-Xylenes | | < 0.00399 | 0.00399 | | | | | | | | | | |
| o-Xylene | | < 0.00200 | 0.00200 | | | | | | | | | | |
| Total Xylenes | | < 0.00200 | 0.00200 | | | | | | | | | | |
| Total BTEX | | < 0.00200 | 0.00200 | | | | | | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 16:15 | Oct-19-17 1 | 6:15 | Oct-19-17 1 | 6:15 | Oct-19-17 | 16:15 | Oct-19-17 1 | 16:15 | Oct-19-17 1 | 6:15 |
| | Analyzed: | Oct-19-17 2 | 21:46 | Oct-19-17 2 | 1:53 | Oct-19-17 2 | 2:01 | Oct-19-17 2 | 22:09 | Oct-19-17 2 | 22:16 | Oct-19-17 2 | 2:39 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1390 | 24.6 | 974 | 24.8 | 2320 | 24.5 | 269 | 4.91 | 22.5 | 4.89 | 49.4 | 4.98 |
| TPH By SW8015 Mod | Extracted: | Oct-20-17 1 | 17:00 | | | | | | | | ĺ | | |
| | Analyzed: | Oct-21-17 (| 05:09 | | | | | | | | | | |
| | Units/RL: | mg/kg | RL | | | | | | | | | | |
| Gasoline Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | | | | |
| Diesel Range Organics | | <15.0 | 15.0 | | | | | | | | | | |
| Oil Range Hydrocarbons | | <15.0 | 15.0 | | | | | | | | | | |
| Total TPH | | <15.0 | 15.0 | | | | | | | | | | |

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks Project Manager

Knis Roah



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id:

Contact: Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Thu Oct-19-17 10:30 am

Report Date: 24-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565936-0 | 07 | 565936-0 | 08 | 565936-0 | 09 | 565936-0 | 10 | 565936-0 | 11 | 565936-0 | 12 |
|---------------------|------------|-------------|-----------------|-----------------|-----------------|-------------|------|-------------|-------|-------------|------|-------------|------|
| Analysis Requested | Field Id: | S-6 6-7 | | S-6 7-8 | 3 | S-6 8-9 | | S-6 9-1 | 0 | S-6 10-1 | 1 | S-6 11-1 | 2 |
| Analysis Requesieu | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | SOIL | | SOIL | | SOIL | | | SOIL | | SOIL | |
| | Sampled: | Oct-18-17 1 | Oct-18-17 12:40 | | Oct-18-17 12:40 | | 2:45 | Oct-18-17 1 | 2:45 | Oct-18-17 1 | 2:45 | Oct-18-17 1 | 2:45 |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 6:15 | Oct-19-17 16:15 | | Oct-19-17 1 | 6:15 | Oct-19-17 1 | 6:15 | Oct-19-17 1 | 6:15 | Oct-19-17 1 | 6:15 |
| | Analyzed: | Oct-19-17 2 | Oct-19-17 22:47 | | 23:10 | Oct-19-17 2 | 3:18 | Oct-19-17 2 | 23:26 | Oct-19-17 2 | 3:33 | Oct-19-17 2 | 3:41 |
| | Units/RL: | mg/kg | mg/kg RL | | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 38.4 | 4.95 | 20.9 | 4.96 | 27.3 | 4.97 | 16.2 | 4.90 | < 5.00 | 5.00 | <4.96 | 4.96 |

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Mus Hoah

Kelsey Brooks



Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Thu Oct-19-17 10:30 am

Report Date: 24-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565936-0 | 13 | 565936-0 | 14 | 565936-0 | 15 | 565936-0 | 16 | 565936-0 | 17 | 565936-0 | 18 |
|---------------------|------------|-------------|-----------------|-----------------|-----------------|-------------|-----------------|-------------|------|-------------|------|-------------|------|
| Analysis Requested | Field Id: | S-6 12-1 | 3 | S-6 13-1 | 4 | S-6 14-1 | 5 | S-8 3-4 | | S-8 4-5 | ; | S-8 5-6 | ; |
| Anaiysis Kequesiea | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | SOIL | | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Oct-18-17 1 | 2:55 | Oct-18-17 1 | 2:55 | Oct-18-17 1 | 2:55 | Oct-18-17 1 | 3:30 | Oct-18-17 1 | 3:35 | Oct-18-17 1 | 3:40 |
| Chloride by EPA 300 | Extracted: | Oct-19-17 1 | 6:15 | Oct-19-17 16:15 | | Oct-23-17 1 | 2:00 | Oct-23-17 1 | 2:00 | Oct-23-17 1 | 2:00 | Oct-23-17 1 | 2:00 |
| | Analyzed: | Oct-19-17 2 | Oct-19-17 23:49 | | Oct-19-17 23:56 | | Oct-23-17 16:35 | | 8:01 | Oct-23-17 1 | 8:08 | Oct-23-17 1 | 8:15 |
| | Units/RL: | mg/kg | mg/kg RL | | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 103 | 4.91 | 169 | 4.97 | 127 | 4.91 | 576 | 4.97 | 1840 | 24.9 | 22.0 | 4.94 |

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Larson & Associates, Midland, TX Project Name: Chevron Salado Draw



Project Id: Contact:

Mark Larson

Project Location: Chevron Salado Draw

Date Received in Lab: Thu Oct-19-17 10:30 am

Report Date: 24-OCT-17 **Project Manager:** Kelsey Brooks

| | Lab Id: | 565936-019 | | | |
|---------------------|------------|-----------------|--|--|--|
| Analysis Requested | Field Id: | S-8 6-7 | | | |
| Anatysis Requested | Depth: | | | | |
| | Matrix: | SOIL | | | |
| | Sampled: | Oct-18-17 13:45 | | | |
| Chloride by EPA 300 | Extracted: | Oct-23-17 12:00 | | | |
| | Analyzed: | Oct-23-17 18:22 | | | |
| | Units/RL: | mg/kg RL | | | |
| Chloride | | 6.73 4.97 | | | |

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Kelsey Brooks
Project Manager

Analytical Report 565936

for Larson & Associates

Project Manager: Mark Larson Chevron Salado Draw

24-OCT-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





24-OCT-17

Project Manager: Mark Larson Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No(s): 565936

Chevron Salado Draw

Project Address: Chevron Salado Draw

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) 565936. 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. 565936 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,

Kelsey Brooks

Knus Roah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 565936



Larson & Associates, Midland, TX

Chevron Salado Draw

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------|--------------|---------------|
| S-6 0-1 | S | 10-18-17 12:35 | | 565936-001 |
| S-6 1-2 | S | 10-18-17 12:35 | | 565936-002 |
| S-6 2-3 | S | 10-18-17 12:35 | | 565936-003 |
| S-6 3-4 | S | 10-18-17 12:35 | | 565936-004 |
| S-6 4-5 | S | 10-18-17 12:40 | | 565936-005 |
| S-6 5-6 | S | 10-18-17 12:40 | | 565936-006 |
| S-6 6-7 | S | 10-18-17 12:40 | | 565936-007 |
| S-6 7-8 | S | 10-18-17 12:40 | | 565936-008 |
| S-6 8-9 | S | 10-18-17 12:45 | | 565936-009 |
| S-6 9-10 | S | 10-18-17 12:45 | | 565936-010 |
| S-6 10-11 | S | 10-18-17 12:45 | | 565936-011 |
| S-6 11-12 | S | 10-18-17 12:45 | | 565936-012 |
| S-6 12-13 | S | 10-18-17 12:55 | | 565936-013 |
| S-6 13-14 | S | 10-18-17 12:55 | | 565936-014 |
| S-6 14-15 | S | 10-18-17 12:55 | | 565936-015 |
| S-8 3-4 | S | 10-18-17 13:30 | | 565936-016 |
| S-8 4-5 | S | 10-18-17 13:35 | | 565936-017 |
| S-8 5-6 | S | 10-18-17 13:40 | | 565936-018 |
| S-8 6-7 | S | 10-18-17 13:45 | | 565936-019 |

CASE NARRATIVE

Client Name: Larson & Associates Project Name: Chevron Salado Draw

Project ID: Report Date: 24-OCT-17 Work Order Number(s): 565936 Date Received: 10/19/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3031040 BTEX by EPA 8021B

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

confirmed by re-analysis.

Samples affected are: 566044-021 S.

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





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: S-6 0-1 Matrix:

Date Received:10.19.17 10.30

Lab Sample Id: 565936-001

Date Collected: 10.18.17 12.35

Prep Method: E300P

Date Prep:

Tech: Analyst:

Analytical Method: Chloride by EPA 300

% Moisture:

MNV MNV

10.19.17 16.15

Basis:

Wet Weight

Seq Number: 3030949

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1390 | 24.6 | mg/kg | 10.19.17 21.46 | | |

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

Date Prep:

10.20.17 17.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|-----------------------------|------------|------------|---------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <15.0 | 15.0 | | mg/kg | 10.21.17 05.09 | U | 1 |
| Diesel Range Organics | C10C28DRO | <15.0 | 15.0 | | mg/kg | 10.21.17 05.09 | U | 1 |
| Oil Range Hydrocarbons | PHCG2835 | <15.0 | 15.0 | | mg/kg | 10.21.17 05.09 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 10.21.17 05.09 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 109 | % | 70-135 | 10.21.17 05.09 | | |
| o-Terphenyl | | 84-15-1 | 105 | % | 70-135 | 10.21.17 05.09 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 0-1 Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-001

Analytical Method: BTEX by EPA 8021B

Date Collected: 10.18.17 12.35

Prep Method: SW5030B

JUM

% Moisture:

Tech: JUM

Analyst:

10.20.17 10.00 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 10.20.17 17.21 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 10.20.17 17.21 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 106 | % | 80-120 | 10.20.17 17.21 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 117 | % | 80-120 | 10.20.17 17.21 | | |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-6 1-2**

Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-002

Date Collected: 10.18.17 12.35

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: Analyst: MNV

MNV

Date Prep: 10.19.17 16.15

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 974 | 24.8 | mg/kg | 10.19.17 21.53 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 2-3 Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-003

Date Collected: 10.18.17 12.35

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

MNV Tech: MNV

Analyst:

Date Prep:

10.19.17 16.15

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 2320 | 24.5 | mg/kg | 10.19.17 22.01 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 3-4 Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-004

Analytical Method: Chloride by EPA 300

Date Collected: 10.18.17 12.35

Prep Method: E300P

% Moisture:

MNV Tech:

Analyst:

MNV

10.19.17 16.15 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 269 | 4.91 | mg/kg | 10.19.17 22.09 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 4-5

Matrix:

Date Prep:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-005

Date Collected: 10.18.17 12.40

Prep Method: E300P

T- -1. MNIV

% Moisture:

Tech: Analyst: MNV MNV

Analytical Method: Chloride by EPA 300

10.19.17 16.15 F

Basis: V

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 22.5 | 4.89 | mø/kø | 10.19.17.22.16 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-6 5-6**

Matrix:

Soil

10.19.17 16.15

Date Received:10.19.17 10.30

Lab Sample Id: 565936-006

Date Collected: 10.18.17 12.40

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

MNV Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 49.4 | 4.98 | mg/kg | 10.19.17 22.39 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 6-7 Matrix:

Soil

10.19.17 16.15

Date Received:10.19.17 10.30

Lab Sample Id: 565936-007

Date Collected: 10.18.17 12.40

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

Date Prep:

% Moisture:

Basis:

Wet Weight

MNVAnalyst: Seq Number: 3030949

Tech:

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 38.4 | 4.95 | mg/kg | 10.19.17 22.47 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-67-8 Matrix:

Soil

10.19.17 16.15

Date Received:10.19.17 10.30

Lab Sample Id: 565936-008

Date Collected: 10.18.17 12.40

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

% Moisture:

Tech:

Analyst:

MNVDate Prep: Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 20.9 | 4.96 | mg/kg | 10.19.17 23.10 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 8-9 Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-009

Analytical Method: Chloride by EPA 300

Date Collected: 10.18.17 12.45

Prep Method: E300P

Tech: MNV

Analyst:

% Moisture:

MNV

10.19.17 16.15 Date Prep:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 27.3 | 4.97 | mg/kg | 10.19.17 23.18 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 9-10

Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-010

Date Collected: 10.18.17 12.45

Prep Method: E300P

% Moisture:

Tech: Analyst: MNV MNV

Analytical Method: Chloride by EPA 300

Date Prep: 10.19.17 16.15

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16.2 | 4.90 | mg/kg | 10.19.17 23.26 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-6 10-11**

Matrix: Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-011

Date Collected: 10.18.17 12.45

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

% Moisture:

Tech: MNV

Analyst:

Date Prep: 10.19.17 16.15

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | < 5.00 | 5.00 | mg/kg | 10.19.17 23.33 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-6 11-12**

Matrix: Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-012

Date Collected: 10.18.17 12.45

Prep Method: E300P

Tech: MNV

Analytical Method: Chloride by EPA 300

% Moisture:

Analyst: MNV

Date Prep: 10.19.17 16.15

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.96 | 4.96 | mg/kg | 10.19.17 23.41 | U | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-6 12-13

Matrix: Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-013

Date Collected: 10.18.17 12.55

Prep Method: E300P

. ,

Analytical Method: Chloride by EPA 300

rep wemou.

Tech:

MNV

% Moisture:

Analyst: MNV

Date Prep: 10.19.17 16.15

Basis: We

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 103 | 4.91 | mg/kg | 10.19.17 23.49 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: **S-6 13-14**

Matrix: Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-014

Date Collected: 10.18.17 12.55

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

% Moisture:

Tech: MNV

Analyst:

Date Prep: 10.19.17 16.15

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 169 | 4.97 | mg/kg | 10.19.17 23.56 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Soil

Sample Id: **S-6 14-15**

Matrix:

Date Received:10.19.17 10.30

Lab Sample Id: 565936-015

Date Collected: 10.18.17 12.55

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MNV

% Moisture:

Tech: MNV

Analyst:

Date Prep:

10.23.17 12.00

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 127 | 4.91 | mg/kg | 10.23.17 16.35 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 3-4 Matrix:

Date Prep:

Soil

10.23.17 12.00

Date Received:10.19.17 10.30

Lab Sample Id: 565936-016

Date Collected: 10.18.17 13.30

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech:

MNV

Basis:

Wet Weight

MNVAnalyst: Seq Number: 3031231

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 576 | 4.97 | mg/kg | 10.23.17.18.01 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 4-5

Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-017

Date Collected: 10.18.17 13.35

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MNV

Analyst:

MNV

Date Prep: 10.23.17 12.00

Basis:

Wet Weight

Seq Number: 3031231

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1840 | 24.9 | mg/kg | 10.23.17 18.08 | | 5 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 5-6 Matrix:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-018

Date Collected: 10.18.17 13.40

Prep Method: E300P

Analytical Method: Chloride by EPA 300 MNV

% Moisture:

Tech: MNV

Analyst:

Date Prep: 10.23.17 12.00 Basis:

Wet Weight

Seq Number: 3031231

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 22.0 | 4.94 | mg/kg | 10.23.17 18.15 | | 1 |





Larson & Associates, Midland, TX

Chevron Salado Draw

Sample Id: S-8 6-7 Matrix:

Date Prep:

Soil

Date Received:10.19.17 10.30

Lab Sample Id: 565936-019

Analytical Method: Chloride by EPA 300

MNV

Date Collected: 10.18.17 13.45

Prep Method: E300P

MNV

% Moisture:

Tech:

Analyst:

10.23.17 12.00

Basis:

Wet Weight

Seq Number: 3031231

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6.73 | 4.97 | mg/kg | 10.23.17 18.22 | | 1 |



Flagging Criteria



- Page 149 of 183
- 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.
- **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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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| (432) 563-1800 | (432) 563-1713 |
| (602) 437-0330 | |
| | (281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800 |

Final 1.000

E300P

E300P

mg/kg

10.19.17 20:37

20



QC Summary 565936

Larson & Associates

Chevron Salado Draw

Analytical Method: Chloride by EPA 300

Prep Method:

 Seq Number:
 3030949
 Matrix:
 Solid
 Date Prep:
 10.19.17

 MB Sample Id:
 7632950-1-BLK
 LCS Sample Id:
 7632950-1-BKS
 LCSD Sample Id:
 7632950-1-BSD

%RPD MB LCS LCS Limits **RPD** Spike LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

Chloride <5.00 250 246 98 246 98 90-110 0 20 mg/kg 10.19.17 20:14

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3031231 Matrix: Solid Date Prep: 10.23.17

MB Sample Id: 7633092-1-BLK LCS Sample Id: 7633092-1-BKS LCSD Sample Id: 7633092-1-BSD

LCS LCS %RPD RPD MB Spike LCSD LCSD Limits Units Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec

Chloride <5.00 250 247 99 246 98 90-110 0 20 mg/kg 10.23.17 16:22

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3030949 Matrix: Soil Date Prep: 10.19.17

Parent Sample Id: 565936-005 MS Sample Id: 565936-005 S MSD Sample Id: 565936-005 SD

MS MSD **RPD** Parent Spike MS **MSD** Limits %RPD Units **Analysis** Flag **Parameter** Result Limit Date Result %Rec Amount Result %Rec Chloride 22.5 245 277 104 275 103 90-110 20 10.19.17 22:24 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method:

246

<4.92

 Seq Number:
 3030949
 Matrix:
 Soil
 Date Prep:
 10.19.17

 Parent Sample Id:
 565937-001
 MS Sample Id:
 565937-001 S
 MSD Sample Id:
 565937-001 SD

98

RPD MS MSD %RPD Parent Spike MS Limits Units Analysis **MSD** Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec

244

99

90-110

Analytical Method: Chloride by EPA 300 Prep Method: E300P

242

Seq Number: 3031231 Matrix: Soil Date Prep: 10.23.17

Parent Sample Id: 565936-015 MS Sample Id: 565936-015 S MSD Sample Id: 565936-015 SD

Parent Spike MS MS Limits %RPD **RPD** Units Analysis **MSD MSD** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Chloride 127 246 365 97 369 98 90-110 20 10.23.17 16:42 1 mg/kg

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3031231Matrix: SoilDate Prep:10.23.17

Parent Sample Id: 565936-019 MS Sample Id: 565936-019 S MSD Sample Id: 565936-019 SD

Parent Spike MS MS Limits %RPD **RPD** Units Analysis MSD **MSD Parameter** Flag Result %Rec Limit Date Result Amount Result %Rec 249 258 101 259 90-110 0 20 10.23.17 18:28 Chloride 6.73 101 mg/kg

Chloride

Flag

Flag



QC Summary 565936

Larson & Associates

Chevron Salado Draw

Analytical Method: TPH By SW8015 Mod TX1005P Prep Method: Seq Number: 3031144 Matrix: Solid Date Prep: 10.20.17

LCS Sample Id: 7633054-1-BKS LCSD Sample Id: 7633054-1-BSD 7633054-1-BLK MB Sample Id:

| MB tesult | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|--------------------|-------------------------|---|--|---|--|--|--|--|--|---|
| <15.0 | 1000 | 1120 | 112 | 1050 | 105 | 70-135 | 6 | 35 | mg/kg | 10.21.17 04:28 | |
| <15.0 | 1000 | 1120 | 112 | 1110 | 111 | 70-135 | 1 | 35 | mg/kg | 10.21.17 04:28 | |
| < | esult <15.0 | esult Amount <15.0 1000 | esult Amount Result <15.0 | esult Amount Result %Rec <15.0 | esult Amount Result %Rec Result <15.0 | esult Amount Result %Rec Result %Rec <15.0 | esult Amount Result %Rec Result %Rec <15.0 | esult Amount Result %Rec Result %Rec <15.0 | esult Amount Result %Rec Result %Rec Limit <15.0 | esult Amount Result %Rec Result %Rec Limit <15.0 | esult Amount Result %Rec Result %Rec Limit Date <15.0 |

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 10.21.17 04:28 1-Chlorooctane 112 122 110 70-135 % o-Terphenyl 109 120 104 70-135 % 10.21.17 04:28

Analytical Method: TPH By SW8015 Mod TX1005P Prep Method:

Seq Number: 3031144 Matrix: Soil Date Prep: 10.20.17 565936-001 S MSD Sample Id: 565936-001 SD MS Sample Id: Parent Sample Id: 565936-001

MS MS %RPD RPD Limits Units Analysis Parent Spike **MSD MSD Parameter** Limit Date Result Amount Result %Rec Result %Rec Gasoline Range Hydrocarbons <15.0 997 1040 104 1050 105 70-135 35 10.21.17 05:29 mg/kg 10.21.17 05:29 Diesel Range Organics <15.0 997 1120 112 1110 70-135 35 111 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag Date %Rec Flag %Rec 1-Chlorooctane 110 108 70-135 10.21.17 05:29 % o-Terphenyl 107 100 70-135 % 10.21.17 05:29

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B Seq Number: 3031040 Matrix: Solid Date Prep: 10.20.17

LCS Sample Id: 7632991-1-BKS LCSD Sample Id: 7632991-1-BSD MB Sample Id: 7632991-1-BLK

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date |
|--------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|
| Benzene | < 0.00198 | 0.0988 | 0.0967 | 98 | 0.0970 | 98 | 70-130 | 0 | 35 | mg/kg | 10.20.17 14:15 |
| Toluene | < 0.00198 | 0.0988 | 0.0974 | 99 | 0.0961 | 97 | 70-130 | 1 | 35 | mg/kg | 10.20.17 14:15 |
| Ethylbenzene | < 0.00198 | 0.0988 | 0.0997 | 101 | 0.0981 | 99 | 71-129 | 2 | 35 | mg/kg | 10.20.17 14:15 |
| m,p-Xylenes | < 0.00395 | 0.198 | 0.196 | 99 | 0.193 | 97 | 70-135 | 2 | 35 | mg/kg | 10.20.17 14:15 |
| o-Xylene | < 0.00198 | 0.0988 | 0.0959 | 97 | 0.0945 | 95 | 71-133 | 1 | 35 | mg/kg | 10.20.17 14:15 |

| Surrogate | MB %Rec | MB Flag | | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-----|-------------|--------------|--------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 106 | | 90 | | 84 | | 80-120 | % | 10.20.17 14:15 |
| 4-Bromofluorobenzene | 118 | | 103 | | 102 | | 80-120 | % | 10.20.17 14:15 |



QC Summary 565936

Larson & Associates

Chevron Salado Draw

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3031040
 Matrix:
 Soil

 Parent Sample Id:
 566044-021
 MS Sample Id:
 566044-021 S

Prep Method: SW5030B Date Prep: 10.20.17

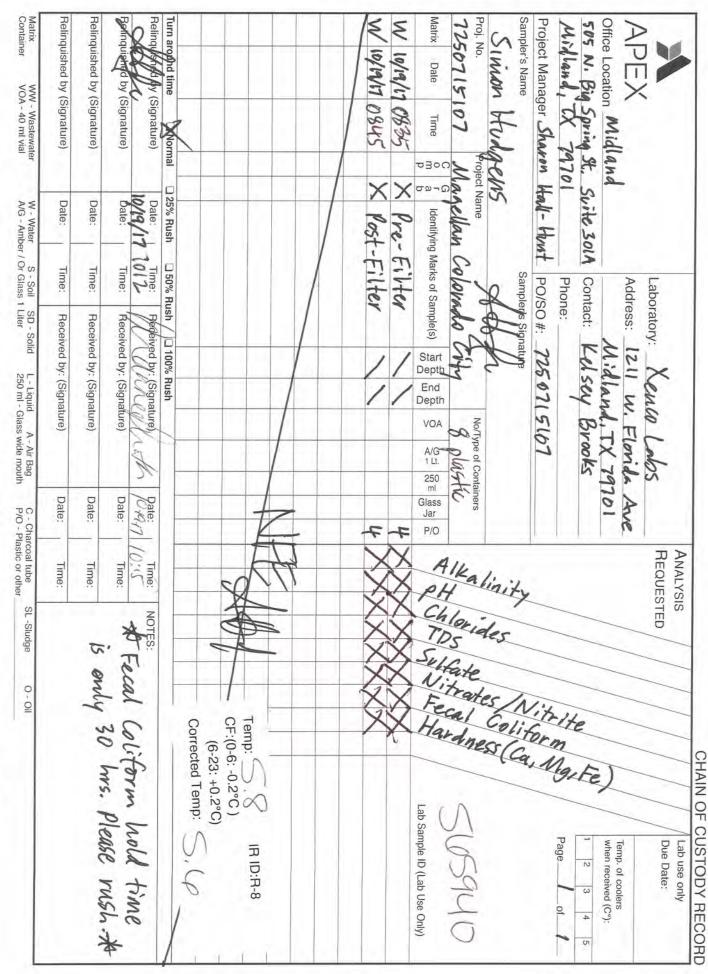
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | Limits | Units | Analysis Date | Flag |
|--------------|------------------|-----------------|--------------|------------|--------|-------|------------------|------|
| Benzene | < 0.00197 | 0.0986 | 0.0372 | 38 | 70-130 | mg/kg | 10.20.17 14:51 | X |
| Toluene | < 0.00197 | 0.0986 | 0.0345 | 35 | 70-130 | mg/kg | 10.20.17 14:51 | X |
| Ethylbenzene | < 0.00197 | 0.0986 | 0.0332 | 34 | 71-129 | mg/kg | 10.20.17 14:51 | X |
| m,p-Xylenes | < 0.00394 | 0.197 | 0.0639 | 32 | 70-135 | mg/kg | 10.20.17 14:51 | X |
| o-Xylene | < 0.00197 | 0.0986 | 0.0314 | 32 | 71-133 | mg/kg | 10.20.17 14:51 | X |

| Surrogate | MS MS %Rec Flag | Limits | Units | Analysis Date |
|----------------------|--------------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 114 | 80-120 | % | 10.20.17 14:51 |
| 4-Bromofluorobenzene | 137 | 80-120 | % | 10.20.17 14:51 |

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| р. | 0 | TURN AROUND TIME | | | | | | | | | | | | | | | | | SOBS PCBS | O PAIN CO. | TRI TORE TO THE REPORT TO THE | 17-0 | LOCATION OR NAME: Chevren | 7-2017 | |
| 00 | | | | | | | | | | | | | | | | | | | CLD MEI | ALS PCRA | | 0100-01 | R NAME | 7 | |
| AAND DELIVERED HAND DELIVERED | RECEIVING TEMP: CUSTODY SEALS | LABORATORY USE ONLY: | | | | | | | | | | | | | | | | | (%)(%) | (A) () | 100 | | LAB W | | |
| CARRIER BILL#_ | TEMP:_ | RY USE (| Correct | (6-2 | CF:(0-6 | Temp: « | | | | | | | | | | | | | 1.1 /1 | 011010 | 1001 | 41 | | | 2 |
| | THERM #: | ONLY: | Corrected Temp: | (6-23: +0.2°C) | 0.2 | M | | | | | | | | | | | | | A SOLD | CASIRO SAIRA S | Service of Control of | COLLECTOR: | Chenzen Salade | | NIIN |
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| Signature) | Signature) Signature) | | | | | | | | | | | | | | Lab # | A=AIR | S=SOIL W=WATER | al Consulta | 2 | |
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| DATE/TIME | DATE/TIME | | | | | | | | | SLica | 0.10 | 17 'un | 13:35 | 13:30 | Time | OI=OIHER | P=PAINT SL=SLUDGE | | 1 | |
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| COSTODI SEAS | RECEIVING TEMP: | | | | | | | | | | | | | | 10 TA 1 ME 1 | TO POPULATION | 100 | - 0 | LAB V | |
| R BILL | ORY US | Collected Lemb. | (6-23: +0.2°C) | Temp: | - | | | | | | + | | | | 10/0 | J. 18 60 14 | 201 | heuren | LAB WORK ORDER #. | |
| | SE ON | red | 6: -0. | 1 | | | | | | < | < | | < | 1 | CHI SIL | 12 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 200 | COL | ORE | |
| o S | LY: | - I | (0-6: -0.2°C) (6-23: +0.2°C) | W | | | | | | | | | | | Wallet. | 1 | LANION | COLLECTOR: | DER # | |
| | THERM #: | | | IR ID:R-8 | | | | | | | | | | | FIELD NOTES | \$\frac{1}{2} \text{\$\frac{1}{2} \text{\$\frac{1} \text{\$\frac{1} \text{\$\frac{1} \text{\$\frac{1}{2} \text{\$\frac{1}{2} \$\f | NIOR OF THE PROPERTY OF THE PR | 10R: 2CB | PAGE | 1 |
| eleased to | Imaging: | 3/31/ | 2022 1. | 18:3 | 1 PM_ | | | | Page 34 | | | | | | OTES | Final 1.000 | | | 07-6 | 1 |

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Released to Imaging: 3/31/2022 1:18:31 PM



Inter-Office Shipment

Page 1 of 1

IOS Number 1050622

Date/Time: Lab# From:

Lab# To:

10/20/17 11:14

Midland

Lubbock

Created by:

Air Bill No.:

Delivery Priority:

Shawnee Smith

Please send report to: Kelsey Brooks

Address: 1211 W. Florida Ave, Midland TX 79701

Phone:

E-Mail: kelsey.brooks@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|---------|-------------------|----------|----------|-----|----------------------|------|
| 565936-001 | S | S-6 0-1 | 10/18/17 12:35 | SW8021B | BTEX by EPA 8021B | 10/23/17 | 11/01/17 | KEB | BR4FBZ BZ BZME EBZ X | |

Inter Office Shipment or Sample Comments:

Relinquished By

Date Relinquished: 10/20/2017

Received By: —

Date Received:

Cooler Temperature:



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Larson & Associates

Date/ Time Received: 10/19/2017 10:30:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 565936

Temperature Measuring device used: R8

| TTOIR OTUO! II. CCCCCC | | |
|---|--------------------------|------------------|
| | Sample Receipt Checklist | Comments |
| #1 *Temperature of cooler(s)? | | -1.1 |
| #2 *Shipping container in good condition | ? | Yes |
| #3 *Samples received on ice? | | Yes |
| #4 *Custody Seals intact on shipping col | ntainer/ cooler? | N/A |
| #5 Custody Seals intact on sample bottle | es? | 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 relinque | uished/ received? | Yes |
| #10 Chain of Custody agrees with samp | e 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 indicat | ed test(s)? | Yes |
| #16 All samples received within hold tim | e? | Yes |
| #17 Subcontract of sample(s)? | | No |
| #18 Water VOC samples have zero head | dspace? | N/A |
| * Must be completed for after-hours de | | the refrigerator |
| Analyst: | PH Device/Lot#: | |
| Checklist completed by: | Shawnee Smith | Date: 10/20/2017 |
| Checklist reviewed by: | Musy Moah Kelsey Brooks | Date: 10/20/2017 |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: RWCS Solodo Draw Project Number: 17-0186-01

Location:

Lab Order Number: 8A17002



NELAP/TCEQ # T104704516-16-7

Report Date: 01/18/18

Fax: (432) 687-0456

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|------------------|
| S-2 (5') | 8A17002-01 | Soil | 01/16/18 12:20 | 01-17-2018 08:40 |
| S-2 (10') | 8A17002-02 | Soil | 01/16/18 12:21 | 01-17-2018 08:40 |
| S-2 (15') | 8A17002-03 | Soil | 01/16/18 12:22 | 01-17-2018 08:40 |
| S-2 (20') | 8A17002-04 | Soil | 01/16/18 12:23 | 01-17-2018 08:40 |
| S-5 (0) | 8A17002-06 | Soil | 01/16/18 12:38 | 01-17-2018 08:40 |
| S-5 (5') | 8A17002-07 | Soil | 01/16/18 12:33 | 01-17-2018 08:40 |
| S-5 (10') | 8A17002-08 | Soil | 01/16/18 12:34 | 01-17-2018 08:40 |
| S-5 (15') | 8A17002-09 | Soil | 01/16/18 12:35 | 01-17-2018 08:40 |
| S-5 (20') | 8A17002-10 | Soil | 01/16/18 12:36 | 01-17-2018 08:40 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-2 (5') 8A17002-01 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 2270 | 10.9 mg/kg dry | 10 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|----|---------|----------|----------|------------|
| % Moisture | 8.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-2 (10') 8A17002-02 (Soil)

| | | | | | | | | | I . |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 1420 | 5.43 mg/kg dry | 5 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 8.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-2 (15') 8A17002-03 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 44.2 | 1.10 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 9.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

Fax: (432) 687-0456

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-2 (20') 8A17002-04 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 56.3 | 1.06 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 6.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-5 (0) 8A17002-06 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 773 | 5.38 mg/kg dry | 5 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|-----|----------------|---|---------|----------|----------|------------|
| % Moisture | 7.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-5 (5') 8A17002-07 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 74.9 | 1.10 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 9.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-5 (10') 8A17002-08 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 28.5 | 1.08 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 7.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

> S-5 (15') 8A17002-09 (Soil)

| | | Reporting | | | | | | | |
|---------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

Permian Basin Environmental Lab, L.P.

| Chloride | 33.3 | 1.04 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 4.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

Analyte

Notes

Fax: (432) 687-0456

Method

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

Result

S-5 (20') 8A17002-10 (Soil)

| Reporting | | |
|------------|--|--|
| resporting | | |

Prepared

Batch

Analyzed

Permian Basin Environmental Lab, L.P.

Units

Dilution

General Chemistry Parameters by EPA / Standard Methods

| Chloride | 14.3 | 1.04 mg/kg dry | 1 | P8A1704 | 01/17/18 | 01/18/18 | EPA 300.0 |
|------------|------|----------------|---|---------|----------|----------|------------|
| % Moisture | 4.0 | 0.1 % | 1 | P8A1710 | 01/17/18 | 01/17/18 | ASTM D2216 |

Limit

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-----------|----------------|------------------|-------------|----------------|-------|--------------|-------|
| Batch P8A1704 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P8A1704-BLK1) | | | | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P8A1704-BS1) | | | | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | 407 | 1.00 | mg/kg wet | 400 | | 102 | 80-120 | | | |
| LCS Dup (P8A1704-BSD1) | | | | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | 411 | 1.00 | mg/kg wet | 400 | | 103 | 80-120 | 1.14 | 20 | |
| Duplicate (P8A1704-DUP1) | Sour | ce: 8A17001 | -01 | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | 721 | 1.05 | mg/kg dry | | 651 | | | 10.1 | 20 | |
| Duplicate (P8A1704-DUP2) | Sour | ce: 8A17002 | 2-01 | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | 2280 | 10.9 | mg/kg dry | | 2270 | | | 0.755 | 20 | |
| Matrix Spike (P8A1704-MS1) | Sour | ce: 8A17001 | -01 | Prepared: (| 01/17/18 A | nalyzed: 01 | /18/18 | | | |
| Chloride | 1730 | 1.05 | mg/kg dry | 1050 | 651 | 103 | 80-120 | | | |
| Batch P8A1710 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P8A1710-BLK1) | | | | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P8A1710-DUP1) | Sour | ce: 8A13003 | 3-02 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 14.0 | 0.1 | % | · | 15.0 | | · | 6.90 | 20 | |
| Duplicate (P8A1710-DUP2) | Sour | ce: 8A13004 | 1-05 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 5.0 | 0.1 | % | | 4.0 | | | 22.2 | 20 | |

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|--------|
| | resuit | Emit | Cinto | Zever | resure | , viale | Ziinto | 10.0 | Ziiiit | 1.0005 |
| Batch P8A1710 - *** DEFAULT PREP *** | | | | | | | | | | |
| Duplicate (P8A1710-DUP3) | Sour | ce: 8A13005- | 08 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 6.0 | 0.1 | % | | 7.0 | | | 15.4 | 20 | |
| Duplicate (P8A1710-DUP4) | Sour | ce: 8A15010- | 12 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 6.0 | 0.1 | % | | 6.0 | | | 0.00 | 20 | |
| Duplicate (P8A1710-DUP5) | Soui | ce: 8A15010- | 34 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 2.0 | 0.1 | % | | 3.0 | | | 40.0 | 20 | |
| Duplicate (P8A1710-DUP6) | Sour | ce: 8A17002- | 11 | Prepared & | Analyzed: | 01/17/18 | | | | |
| % Moisture | 4.0 | 0.1 | % | | 4.0 | | | 0.00 | 20 | |

Fax: (432) 687-0456

Larson & Associates, Inc. Project: RWCS Solodo Draw

P.O. Box 50685 Project Number: 17-0186-01 Midland TX, 79710 Project Manager: Mark Larson

Notes and Definitions

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

| | Dren | Darlor | | |
|---------------------|------|--------|-------|-----------|
| Report Approved By: | | | Date: | 1/18/2018 |

D AR

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

| Re | ceived by | OCD. | 8/11 | /202 | 1 8:3 | 4:05 | AM | , | | | | | | | | | | 0 N .11 | | | | | | | Page . | 172 | of 183 |
|--------|-----------------------------|-------------------------------|-----------------------------|--------|-------|-------|-----|----------|-------------|-------|-------|----------|----------|--------|--------|--------|--------|----------------|----------------------|--|--------------------------------|--|--------------|----------------------------------|--|--|---------------|
| | RELINQUISHED BY:(Signature) | RELINQUISHED BY:(Signature | RELINQUISHED BY:(Signature) | | | | | (25 Fe) | (20t4) | (154) | (± 4) | - 1. | S-5 (0x) | (35 F) | (2014) | (1951) | \sim | 54.7 (884) | Field Sample I.D. | MSE | TIME ZONE: Time zone/State: | □Yes XINO | TRRP report? | Environmental Data Reported to: | ∆ arson & | _ | |
| | (Signature) | (Signature) | (Signature) | | | , | | | S. | ٥ | S | <u>ر</u> | 6 | 7 | ٤, | در | 7 | | Lab# | | | A=AIR | S=SOIL | ital Consultants | | | |
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| | BY: (Signature | RECEIVED BY: (Signature) |)Y: (Signature) | | | | | | | | | | | | - | | | | | | NaOH | ۵ | PRESERVATION | 432-687-0901 | 507 N. Marienfeld, Ste. Midland, TX 79701 | | |
| | ature) | ature) | ature) | | | | + | 7 | | | | | | | | | | X | | | ERVE |) | ON | | She. 200 701 | | |
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| | 1 0 1 |) <u> </u> | | | | | | | | | | | | | | | , | | | W. W. | | | | PROJECT | PO#: | ! | |
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| 40 | CARRIER BILL #_ | RECEIVING TEMP: CUSTODY SEALS | LABORATORY USE ONLY; | | | | | | | | | | | | | | | | 110/ | \\ Y | ソノノハゲノ | · · · · | ~~^ | OH 1 | LAB | | |
| frozen | ER BILL # | G TEMP | ORY US | | | | | | | | | | | | | | | | $11 \land 1$ | $\cdot \cdot \cdot \cdot$ | · / '''' ' | · · · · · · | A) \ | 3 1 | NORK | | Ω |
| ク | # ED | □ BR | E ONLY: | | | | | | > | < × | | | <u>\</u> | | · >> | | | \ \ \ | | CALLS OF | NEW CX | | | COLLECTO | LAB WORK ORDER #:4 | | À |
| • | | OKEN [] | . 4 | | | | | > | | | | | | > | | - | | | | THE STATE OF THE S | ANIONS ! | CANUA OSAVE | ANOR O | COLLECTOR: | ΛT^{\sim} . | ָ ֓֞֞֞֞֞֞֞֞֞֓֓֓֓֓֓֞֞֜֓֓֓֓֓֓֓֓֓֓֡֓֡֓֓֓֡֓֡֓֓֡֓֡֓֡֓֡ | <u>-</u> |
| | | BROKEN WNTACT | | , | | | | | | | | | | | | | | | ` | ₹\ | | A CAR | WY . | AT | | DAGE | CHAIN-OF-CUST |
| | | □ NOT USED | | | | | | | | | | | | | | | | | FIELD NOTES | | | | | | 8 | оп П |)TSI |
| Re | eased to | | ng: 3 | 2/31/2 | 022 | 1:18: | 311 | РМ | | | | | | | | | | | SS. | | | | | Pag | e 15 o | f 15 | ¥ . |

Appendix C

Photographs

1RP-4818 Salado Draw RWCS 1RC-11 Chevron USA Inc. Lea County, New Mexico



Source of Spill Viewing South, September 14, 2017



East End of Spill Viewing West, September 14, 2017

1RP-4818 Salado Draw RWCS 1RC-11 Chevron USA Inc. Lea County, New Mexico



West End of Spill Viewing East, September 14, 2017



West End of Spill Viewing East, September 14, 2017

1RP-4818 Salado Draw RWCS 1RC-11 Chevron USA Inc. Lea County, New Mexico



West End of Spill Viewing East, January 25, 2019



East End of Spill Viewing West, January 25, 2019

Appendix D

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID | NOY1726532992 |
|----------------|---------------|
| District RP | |
| Facility 1D | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party Chevron USA Inc. | | | | | | OGRID 4323 | | | | |
|--|--------------|-------------------------------------|---------------------------------|---|--|---|--|--|--|--|
| Contact Name Amy Barnhill | | | | | | Contact Telephone (432) 687-7108 | | | | |
| Contact ema | il ABarnhill | @chevron.com | | | Incident # | (assigned by OCD)1RP-4818 | | | | |
| Contact mail | ling address | 631 Deauville Blv | d., Midland, TX | 79706 | | | | | | |
| 5-5# 4.5 THEOLEGE | 3-30 | 1. 3 | Logotic | n of D | Release S | Convac | | | | |
| | | | Locatio | II UI N | kelease S | ource | | | | |
| Latitude 32 | .033156 | | Longitude (NAD 83 in | decimal de | <u>-103.639194</u> degrees to 5 decimal places) | | | | | |
| Site Name S | Salado Draw | Water Recycling | | | Site Type | Water Recycling North/South | | | | |
| Date Releas | se Discovere | d | | | API# (if a). | oplicable)1RC-11 | | | | |
| | | T m | T | | | | | | | |
| Unit Letter | Section 23 | Township | Range | Υ | Coun | ty | | | | |
| A | 23 | 26S | 32E | Lea | 2 8 | | | | | |
| Surface Own | ner: State | e 🛭 Federal 🔲 | Tribal 🗌 Privat | e (<i>Name:</i> | |) | | | | |
| | | | Nature a | nd Vo | lume of | Release | | | | |
| | Mater | rial(s) Released (Select | all that apply and att | ach calcula | tions or specif | ic justification for the volumes provided below) | | | | |
| Crude Oi | 1 | Volume Release | ed (bbls) | | Volume Recovered (bbls) | | | | | |
| Produced | Water | Volume Release | ed (bbls) 1,105 | oo Ar | | Volume Recovered (bbls) 500 treated produced water | | | | |
| | | Is the concentration produced water | tion of dissolved >10,000 mg/l? | chloride | in the | n the Yes 🖾 No | | | | |
| Condensa | nte | Volume Release | ed (bbls) | | | Volume Recovered (bbls) | | | | |
| Natural Gas Volume Released (Mcf) | | | | | Volume Recovered (Mcf) | | | | | |
| Other (describe) Volume/Weight Released (provide units | | | de units) | Volume/Weight Recovered (provide units) | | | | | | |
| | | | | | | f treated produced water. A total of 500 bbl were by vacuum truck and hauled. | | | | |
| | | | | | | | | | | |

Form C-141 Page 2

State of New Mexico Oil Conservation Division

| I: I ID | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major release as defined by | If YES, for what reason(s) does the responsible exceeded 25 bbl | nsible party consider this a major release? |
|---|---|---|
| 19.15.29.7(A) NMAC? | Spin exceeded 25 bbi | |
| ⊠ Yes □ No | | |
| | | |
| If YES, was immediate no | otice given to the OCD? By whom? To wh | nom? When and by what means (phone, email, etc)? |
| Immediate notice given b | y J. DeLeon (Chevron) to M. Brown and O | Yu (OCD District 1 and J. Amos and S. Tucker (BLM Carlsbad) |
| | Initial F | Response |
| The responsible | e party must undertake the following actions immedial | ely unless they could create a safety hazard that would result in injury |
| ☐ The source of the rele | ase has been stopped. | |
| | s been secured to protect human health and | the environment. |
| Released materials ha | ve been contained via the use of berms or d | ikes, absorbent pads, or other containment devices. |
| | coverable materials have been removed and | |
| If all the actions described | l above have <u>not</u> been undertaken, explain v | vhy: |
| | Ÿ. | |
| | | |
| | | |
| Dev. 10.15.70.9 D. (4) NB.(| AC.II. | |
| has begun, please attach a | narrative of actions to date. If remedial of | emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation. |
| I hereby certify that the infor- regulations all operators are r | mation given above is true and complete to the l | pest of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger |
| public health or the environm | ient. The acceptance of a C-141 report by the O | CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In |
| addition, OCD acceptance of and/or regulations. | a C-141 report does not relieve the operator of | responsibility for compliance with any other federal, state, or local laws |
| _ | Barnhill , | Title: Wests and Water Specialist |
| | 12/2 / | Title: Waste and Water Specialist |
| Signature: | Ofter | Date: <u>01-21-2019</u> |
| email: <u>ABarnhill@chevror</u> | n.com | Telephone: (432) 687-7108 |
| OCD Only | | |
| | | Data |
| | | Date: |

Received by OCD: 8/11/2021 8:34:05 AM

State of New Mexico
Oil Conservation Division

| Form | C-141 |
|--------|-------|
| Page 3 | |

| | Page 180 of 183 |
|----------------|-----------------|
| Incident ID | |
| 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? | (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? | | | | |
| 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? | | | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | | | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ⊠ No | | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ⊠ No | | | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | | | | |
| Characterization Report Checklist: Each of the following items must be included in the report. | | | | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody | | | | |

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

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State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|---|
| District RP | |
| Facility ID | |
| Application ID | - |

| I hereby certify that the information given above is true and complete to the be regulations all operators are required to report and/or file certain release notific public health or the environment. The acceptance of a C-141 report by the OC failed to adequately investigate and remediate contamination that pose a threat addition, OCD acceptance of a C-141 report does not relieve the operator of re and/or regulations. | cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have |
|---|---|
| Printed Name: Amy Barnhill | Title: Waste and Water Specialist |
| Printed Name: Amy Barnhill Signature: Amy Barnhill | Date: <u>01-21-2019</u> |
| email: ABarnhill@chevron.com_ | Telephone: (432) 687-7108 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

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

| Incident ID | NOY1726532992 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

| A scaled site and sampling diagram as described in 19.15.29.11 NMAC | | | |
|---|--|--|--|
| Photographs of the remediated sit must be notified 2 days prior to liner in | e prior to backfill or photos of the lin espection) | er integrity if applicable (Note: appropriate OCD District office | |
| ☐ Laboratory analyses of final samp | ing (Note: appropriate ODC District | office must be notified 2 days prior to final sampling) | |
| Description of remediation activiti | es | | |
| | | | |
| all operators are required to report and/or file environment. The acceptance of a C-141 rel investigate and remediate contamination tha | e certain release notifications and perform bort by the OCD does not relieve the open to pose a threat to groundwater, surface was responsibility for compliance with any of Title Date | y knowledge and understand that pursuant to OCD rules and regulations in corrective actions for releases which may endanger public health or the rator of liability should their operations have failed to adequately ster, human health or the environment. In addition, OCD acceptance of a ther federal, state, or local laws and/or regulations. Waste and Water Specialist 101-21-2019 The phone: (432) 687-7108 | |
| OCD Only | | | |
| Received by: | | Date: | |
| Closure approval by the OCD does not and remediate contamination that poses responsible party of compliance with an | a threat to groundwater, surface w | lity should their operations have failed to adequately investigate ater, human health, or the environment nor does not relieve the d/or regulations. | |
| Closure Approved by: | r Nobili | Date: 03/31/2022 | |
| Printed Name: Jennifer Nobul | | Title: Environmental Specialist A | |
| | | | |

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

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 41210

CONDITIONS

| Operator: | OGRID: |
|---------------------|---|
| CHEVRON U S A INC | 4323 |
| 6301 Deauville Blvd | Action Number: |
| Midland, TX 79706 | 41210 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created | Condition | Condition |
|---------|--|-----------|
| Ву | | Date |
| jnobui | jnobui Closure Report Approved. Depth to water in question as OCD requires well to be within 0.5 miles from the site and gauged within the last 25 years. However, OCD believes sufficient soil was removed when ponds were installed at site. | |