

|                |               |
|----------------|---------------|
| Incident ID    | nRM2004350563 |
| 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?                                                                                                           | <u>25.25</u> (ft bgs)                                               |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

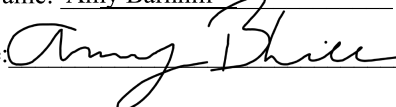
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li><li><input checked="" type="checkbox"/> Field data</li><li><input checked="" type="checkbox"/> Data table of soil contaminant concentration data</li><li><input checked="" type="checkbox"/> Depth to water determination</li><li><input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li><li><input checked="" type="checkbox"/> Boring or excavation logs</li><li><input checked="" type="checkbox"/> Photographs including date and GIS information</li><li><input checked="" type="checkbox"/> Topographic/Aerial maps</li><li><input checked="" type="checkbox"/> Laboratory data including chain of custody</li></ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature:  Date: 1-11-21

email: ABarnhill@chevron.com

Telephone: 432-940-8432

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
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## Remediation Plan

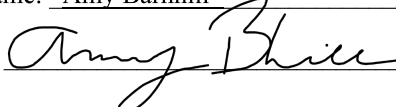
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist  
Signature:  Date: 1-11-21  
email: ABarnhill@chevron.com Telephone: 432-940-8524

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature:  Date: 3/22/2021

|                |               |
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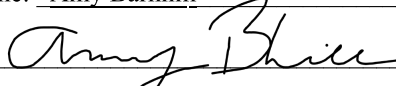
## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

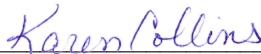
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Amy Barnhill Title: Lead Environmental Specialist  
Signature:  Date: 1-11-21  
email: ABarnhill@chevron.com Telephone: 432-940-8524

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Karen Collins Date: 3/24/2021  
Printed Name:  Title: Environmental Scientist & Specialist



**Tracking Number: nRM2004350563**  
**Closure Report**  
**Skeen 2 26 27 State #002H Pumping Unit**  
**Produced Water and Crude Oil Release**  
**Eddy County, New Mexico**

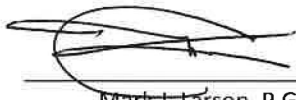
Latitude: N 32.078476°  
Longitude: W -104.1631546°

LAI Project No. 20-0107-03

December 29, 2020

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

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



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



Robert Nelson  
Sr. Geoscientist

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## 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan is submitted to the New Mexico Oil Conservation Division (OCD) District 2 on behalf of Chevron USA Inc. (Chevron) for a crude oil and produced water release at Skeen 2 26 27 State #002H (Site) located in Unit C (NE/4, NW/4), Section 2, Township 26 South, Range 27 East, in Eddy County New Mexico. The geodetic position is North 32.078476° and West -104.1631546°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

### 1.1 Background

The release was discovered on January 27, 2020, due to equipment failure. Chevron reported that approximately 2.3 barrels (bbls) of crude oil and 2.95 bbls of produced water were released. Approximately 2 bbls of crude oil and 2.95 bbls of produced water were recovered. The affected area measures approximately 2,598 square feet. Appendix A presents initial Chevron spill documentation and initial C-141. The OCD assigned the release incident number of nRM2004350563.

### 1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,212 feet above mean sea level (msl).
- The surface topography slopes gradually to the southeast.
- There are no surface water features within 1,000 feet of the Site.
- Karst Data provided by the USGS describes the Site as “High Risk” potential.
- The soils are designated “Reeves-Gypsum land complex, 0 to 3 percent slopes” consisting of 8 inches of loam, underlain by 24 inches of clay loam, and 28 inches of gypsiferous material, in descending order.
- The upper geological unit is the Rustler Formation (Upper Permian) consisting of siltstone, gypsum, sandstone, and dolomite deposits (USGS).
- Groundwater occurs at approximately 25.25 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after installing a boring (BH-1) on April 29, 2020.

Appendix B presents karst potential map. Appendix C presents the boring log. Figure 4 presents the boring hole location.

### 1.3 Remediation Action Levels

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

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

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

## 2.0 DELINEATION

On February 20, March 17, and May 13, 2020, LAI personnel used a stainless-steel hand auger to collect soil samples from eleven (11) locations (SP-1 through SP-11) inside of the spill area and in each cardinal direction of the spill (north, south, east, and west) to delineate the release vertically and horizontally. The samples were collected to approximately 0.5 and 1.0 feet below ground surface (bgs). The soil samples were delivered under chain of custody and preservation to Xenco Laboratories in Midland, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Figure 2 presents an aerial map showing the sample locations.

Benzene and BTEX were below the analytical method reporting limits and OCD remediation levels of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples. Chloride and TPH exceeded the surface restoration limit (19.15.29.13 NMAC) of 600 mg/Kg and 100 mg/Kg, respectively, in the following samples:

| Sample ID, Depth<br>(Feet) | TPH<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|----------------------------|----------------|---------------------|
| S-1, 0 to 0.5              | 523            | 3,210               |
| S-1, 0.5 to 1              | 237            | 3,360               |
| S-2, 0 to 0.5              | 411            | 4,230               |
| S-2, 0.5 to 1              | 753            | 4,290               |
| S-3, 0 to 0.5              | 694            | 1,020               |
| S-3, 0.5 to 1              | 795            | 677                 |
| S-4, 0 to 0.5              | 457            | 820                 |
| S-4, 0.5 to 1              | 663            | 1,050               |
| S-6, 0 to 0.5              | --             | 916                 |
| S-6, 0.5 to 1              | --             | 657                 |
| S-7, 0 to 0.5              | 517            | --                  |
| S-7, 0.5 to 1              | --             | 877                 |
| S-8, 0 to 0.5              | 103            | --                  |

On March 17 and 18, 2019, LAI personnel used direct push technology (DPT) to further delineate the release. Soil samples were collected at 2, 3, 5 and 10 feet bgs, depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Xenco and were analyzed for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. TPH and chloride were delineated below the remediation limits of 100 mg/Kg and 600 mg/Kg, respectively, at all sample locations. Table 1 presents the soil sample analytical data summary. Appendix B presents the laboratory reports.

### 3.0 REMEDIATION

On November 17, 2020, P2 Construction, Inc. (P2) under supervision from LAI excavated soil from the crude oil and produced water release encompassing sample locations SP-1 through SP-4 and SP-6 through SP-8, measuring approximately 3,488 square feet. Soil was excavated to approximately one (1) foot bgs. Approximately 160 cubic yards of contaminated soil was stockpiled on a liner adjacent to the excavation prior to being hauled to the R360 Red Bluff disposal facility located approximately 13 miles northwest of Orla, Texas. On November 24, 2020, LAI personnel collected ten (10) confirmation soil samples from the bottom and sidewalls of the excavation. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Carlsbad, New Mexico. The laboratory analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300E, respectively. All confirmation soil samples reported benzene and BTEX below the OCD remediation levels. Chloride and TPH were reported above OCD remediation levels in the following confirmation sample:

| Sample ID | Location | Depth<br>(Feet) | TPH<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|-----------|----------|-----------------|----------------|---------------------|
| C-5       | Bottom   | 1               | 216            | 1,300               |

On December 14, 2020, P2 excavated approximately one (1) foot of soil from the bottom of the excavation encompassing sample location C-5. Approximately 18 cubic yards of impacted material was removed and hauled to the R360 Red Bluff disposal facility. A subsequent confirmation soil sample reported TPH and chloride below the OCD remediation levels.

LAI personnel collected one (1) composite sample of clean caliche from a nearby State of New Mexico borrow pit. Benzene, BTEX, and TPH were below the analytical method reporting limit and chloride was less than 600 mg/Kg in the backfill composite sample. On December 28, 2020, the excavation was backfilled to ground surface with clean caliche. Table 2 presents the confirmation soil analytical data summary. Figure 3 presents the excavations and confirmation sample locations. Appendix D presents the laboratory reports. Appendix E presents the waste manifests. Appendix F presents photographic documentation.

### 4.0 CLOSURE REQUEST

Chevron USA requests no further action for this release.

## Tables

**Table 1**  
**Soil Sample Analytical Data Summary**  
**Skeen 2H**

**Eddy County, New Mexico**  
**North 32 04' 42.83", West 104 09' 47.46"**

| Sample                    | Depth<br>(Feet) | Collection<br>Date | Status  | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | C6 - C12<br>(mg/kg) | C12 - C28<br>(mg/kg) | C28 - C35<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|---------------------------|-----------------|--------------------|---------|--------------------|-----------------|---------------------|----------------------|----------------------|----------------|---------------------|
| <b>Remediation Level:</b> |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
| <b>S-1</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00202           | <0.00202        | <50.0               | 468                  | 55.2                 | <b>523</b>     | <b>3,210</b>        |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <50.0               | 237                  | <50.0                | <b>237</b>     | <b>3,360</b>        |
|                           | 2               | 3/17/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 123                 |
|                           | 3               | 3/17/2020          | In-Situ | --                 | --              | <49.8               | <49.8                | <49.8                | <49.8          | 7.00                |
|                           | 5               | 3/17/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 5.88                |
|                           | 10              | 3/17/2020          | In-Situ | --                 | --              | <49.9               | <49.9                | <49.9                | <49.9          | 29.5                |
| <b>S-2</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00200           | 0.07550         | <50.0               | 411                  | <50.0                | <b>411</b>     | <b>4,230</b>        |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00200           | 0.02440         | <49.8               | 681                  | 71.5                 | <b>753</b>     | <b>4,290</b>        |
|                           | 2               | 3/18/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 591                 |
|                           | 3               | 3/18/2020          | In-Situ | --                 | --              | <49.9               | <49.9                | <49.9                | <49.9          | 373                 |
|                           | 5               | 3/18/2020          | In-Situ | --                 | --              | <49.8               | <49.8                | <49.8                | <49.8          | 344                 |
|                           | 8               | 3/18/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 261                 |
| <b>S-3</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <49.9               | 614                  | 79.9                 | <b>694</b>     | <b>1,020</b>        |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <50.0               | 711                  | 84                   | <b>795</b>     | <b>677</b>          |
|                           | 2               | 3/18/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 323                 |
|                           | 5               | 3/18/2020          | In-Situ | --                 | --              | <49.9               | <49.9                | <49.9                | <49.9          | 95.4                |
|                           | 8               | 3/18/2020          | In-Situ | --                 | --              | <49.8               | <49.8                | <49.8                | <49.8          | 19.6                |
|                           | 10              | 3/18/2020          | In-Situ | --                 | --              | <49.8               | <49.8                | <49.8                | <49.8          | 14.6                |
| <b>S-4</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00202           | <0.00202        | <49.8               | 404                  | 52.5                 | <b>457</b>     | <b>820</b>          |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00199           | <0.00199        | <50.0               | 597                  | 66.3                 | <b>663</b>     | <b>1,050</b>        |
|                           | 2               | 3/17/2020          | In-Situ | --                 | --              | <49.9               | <49.9                | <49.9                | <49.9          | 114                 |
|                           | 3               | 3/17/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 43.8                |



**Table 1**  
**Soil Sample Analytical Data Summary**  
**Skeen 2H**

**Eddy County, New Mexico**  
**North 32 04' 42.83", West 104 09' 47.46"**

| Sample                    | Depth<br>(Feet) | Collection<br>Date | Status  | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | C6 - C12<br>(mg/kg) | C12 - C28<br>(mg/kg) | C28 - C35<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|---------------------------|-----------------|--------------------|---------|--------------------|-----------------|---------------------|----------------------|----------------------|----------------|---------------------|
| <b>Remediation Level:</b> |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
|                           | 5               | 3/17/2020          | In-Situ | --                 | --              | <49.9               | <49.9                | <49.9                | <49.9          | 61.3                |
|                           | 7.5             | 3/17/2020          | In-Situ | --                 | --              | <50.0               | <50.0                | <50.0                | <50.0          | 40.1                |
| <b>S-5</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00198           | <0.00198        | <50.0               | <50.0                | <50.0                | <50.0          | 126                 |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <49.9               | <49.9                | <49.9                | <49.9          | 151                 |
| <b>S-6</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00198           | <0.00198        | <49.9               | <49.9                | <49.9                | <49.9          | 916                 |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00198           | <0.00198        | <49.8               | <49.8                | <49.8                | <49.8          | 657                 |
|                           | 2               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 387                 |
|                           | 4               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 98.3                |
|                           | 5               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 307                 |
|                           | 8               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 475                 |
| <b>S-7</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00199           | <0.00199        | <50.0               | 455                  | 62.2                 | 517            | 504                 |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <50.0               | 60.7                 | <50.0                | 60.7           | 877                 |
|                           | 2               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 478                 |
|                           | 3               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | 61.6                |
|                           | 5               | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | <4.95               |
|                           | 7.5             | 3/17/2020          | In-Situ | --                 | --              | --                  | --                   | --                   | --             | <4.95               |
| <b>S-8</b>                | 0 - 0.5         | 2/20/2020          | In-Situ | <0.00200           | <0.00200        | <49.9               | 103                  | <49.9                | 103            | 152                 |
|                           | 0.5 - 1         | 2/20/2020          | In-Situ | <0.00199           | <0.00199        | <50.0               | <50.0                | <50.0                | <50.0          | 111                 |
| <b>S-9</b>                | 0 - 0.5         | 3/17/2020          | In-Situ | <0.00198           | <0.00198        | <49.9               | <49.9                | <49.9                | <49.9          | <5.03               |
|                           | 0.5 - 1         | 3/17/2020          | In-Situ | <0.00199           | <0.00199        | <49.8               | <49.8                | <49.8                | <49.8          | <5.05               |

Table 1  
Soil Sample Analytical Data Summary  
Skeen 2H  
Eddy County, New Mexico  
North 32 04' 42.83", West 104 09' 47.46"

| Sample             | Depth<br>(Feet) | Collection<br>Date | Status  | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | C6 - C12<br>(mg/kg) | C12 - C28<br>(mg/kg) | C28 - C35<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|--------------------|-----------------|--------------------|---------|--------------------|-----------------|---------------------|----------------------|----------------------|----------------|---------------------|
| Remediation Level: |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
| S-10               | 0 - 0.5         | 3/17/2020          | In-Situ | <0.00198           | <0.00198        | <50.0               | <50.0                | <50.0                | <50.0          | 26.5                |
|                    | 0.5 - 1         | 3/17/2020          | In-Situ | <0.00200           | <0.00200        | <49.9               | <49.9                | <49.9                | <49.9          | 18.0                |
| S-11               | 0 - 0.5         | 5/13/2020          | In-Situ | <0.00202           | <0.00202        | <50.0               | <50.0                | <50.0                | <50.0          | 102                 |
|                    | 0.5 - 1         | 5/13/2020          | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <50.0          | 104                 |

Notes: Analysis performed by Xenco Laboratories in Midland, TX

Depth in feet below ground surface (bgs)

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

<: denotes concentration less than analytical method reporting limit

**Bold and Highlighted exceeds OCD remediation action limits**  
**Bold and Highlighted exceeds OCD delineation limits**

Table 2  
Confirmation Soil Sample Analytical Data Summary  
Chevron USA, Skeen 2H  
Eddy County, New Mexico  
North 32°04'42.83", West 104°09'47.46"

| Sample ID          | Location | Depth<br>(feet) | Collection<br>Date | Status  | Benzene<br>(mg/Kg) | BTEX<br>(mg/Kg) | C6 - C12<br>(mg/Kg) | C12 - C28<br>(mg/Kg) | C28 - C35<br>(mg/Kg) | TPH<br>(mg/Kg) | Chloride<br>(mg/Kg) |
|--------------------|----------|-----------------|--------------------|---------|--------------------|-----------------|---------------------|----------------------|----------------------|----------------|---------------------|
| RAL:               |          |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
| 10                 |          |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
| 50                 |          |                 |                    |         |                    |                 |                     |                      |                      |                |                     |
| SW-N               | Sidewall | 0 - 1           | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <50.0          | 600                 |
| SW-E               | Sidewall | 0 - 1           | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <49.8               | 61.9                 | <49.8                | 61.9           | 116                 |
| SW-W               | Sidewall | 0 - 1           | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <50.0          | 289                 |
| SW-S               | Sidewall | 0 - 1           | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <50.0          | 253                 |
| C-1                | Bottom   | 1               | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <50.0          | 22.1                |
| C-2                | Bottom   | 1               | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <49.9               | <49.9                | <49.9                | <50.0          | 180                 |
| C-3                | Bottom   | 1               | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | <49.9          | 184                 |
| C-4                | Bottom   | 1               | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <49.9               | <49.9                | <50.0                | <50.0          | 359                 |
| C-5                | Bottom   | 1               | 11/24/2020         | In-Situ | <0.00200           | <0.00200        | <49.9               | 216                  | <49.9                | <49.9          | 128                 |
| C-6                | Bottom   | 2               | 12/14/2020         | In-Situ | <0.00200           | <0.00200        | <50.0               | <50.0                | <50.0                | 216            | 1,300               |
|                    |          | 1               | 11/24/2020         | In-Situ | <0.00199           | <0.00199        | <50.0               | <50.0                | <50.0                | <50.0          | 304                 |
| Backfill Caliche 1 | --       | --              | 11/23/2020         | In-Situ | <0.00200           | <0.00200        | <50.1               | <50.1                | <50.1                | <50.1          | <49.9               |
|                    |          |                 |                    |         |                    |                 |                     |                      |                      |                |                     |

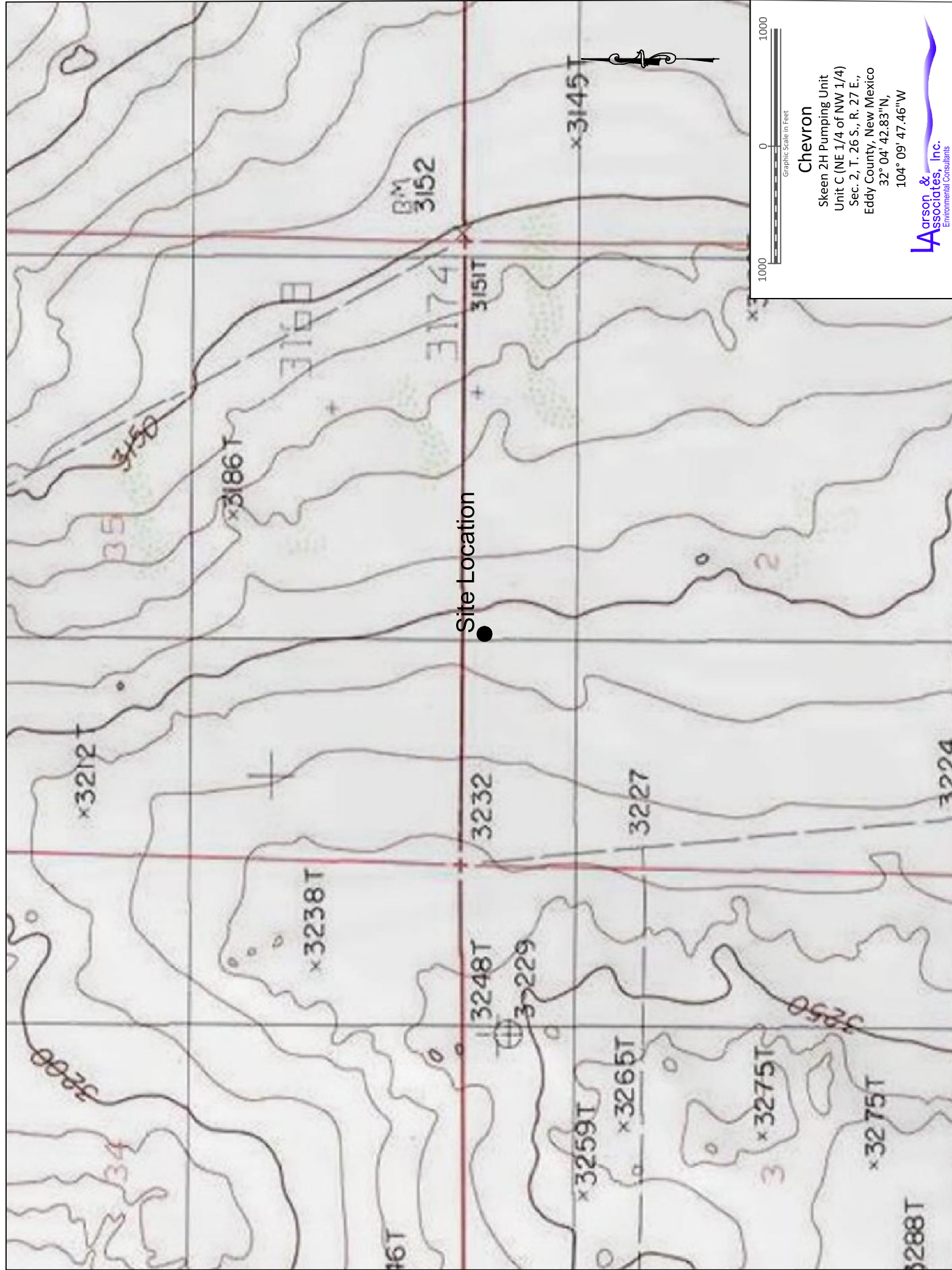
Notes: analysis performed by Xenco Laboratories (Xenco), Midland, Texas and Carlsbad, New Mexico by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

Depth in feet below ground surface (bgs)

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

**Bold and Highlighted Denotes Conetrations Above OCD Closure Criteria**

## Figures



### Chevron

Skeen 2H Pumping Unit  
Unit C (NE 1/4 of NW 1/4)  
Sec. 2, T. 26 S., R. 27 E.,  
Eddy County, New Mexico  
32° 04' 42.83"N,  
104° 09' 47.46"W

Figure 1 - Topographic Map





### Chevron

Skeen 2H Pumping Unit  
Unit C (NE 1/4 of NW 1/4)  
Sec. 2, T. 26 S., R. 27 E.,  
Eddy County, New Mexico  
32° 04' 42.83"N,  
104° 09' 47.46"W



### Legend

- Spill Area
- SP-2 - Soil Sample Location

Figure 2 - Aerial Map



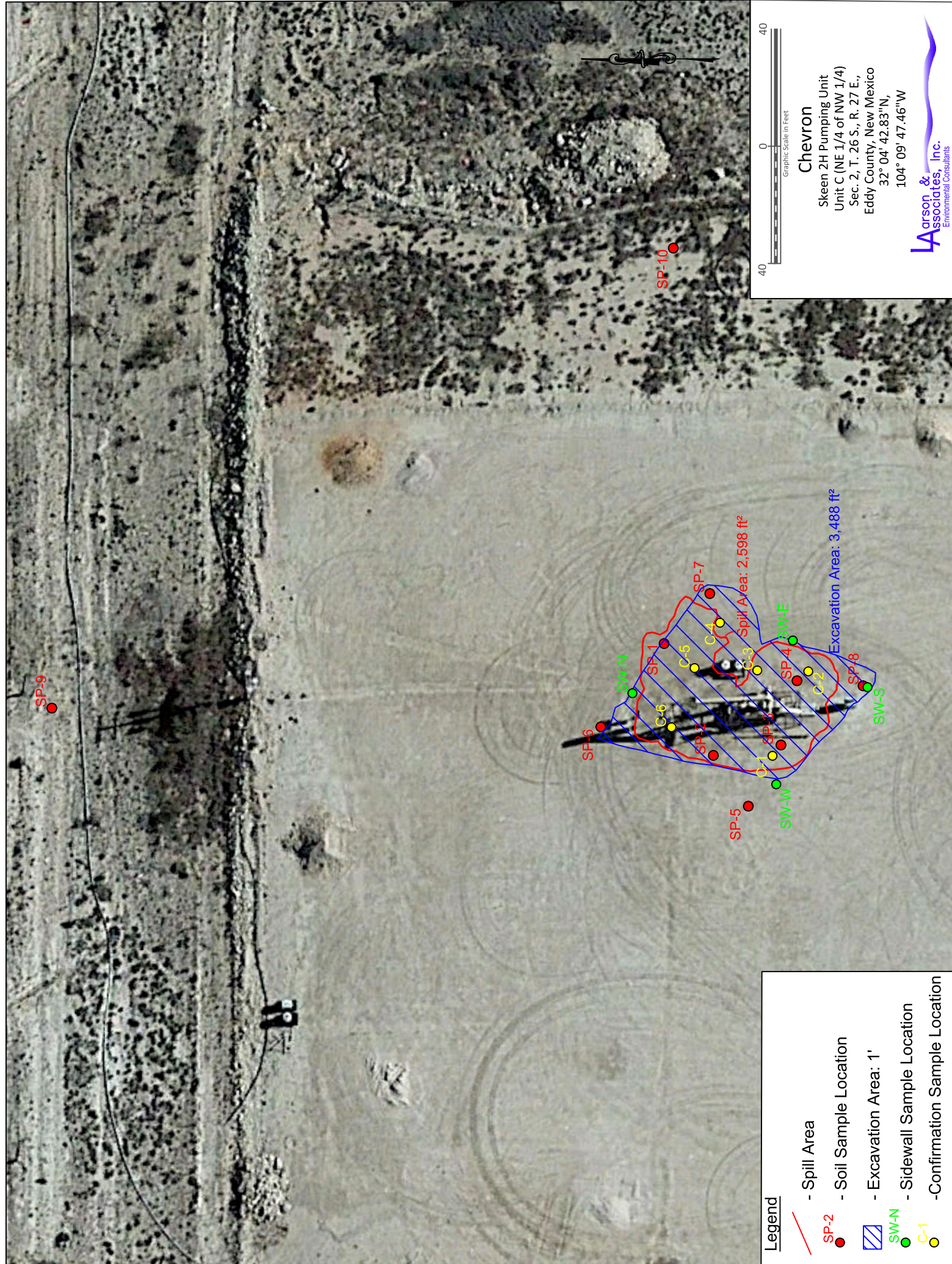


Figure 3 - Aerial Map Showing Excavation Location





Site Location

BH-1

Legend

BH-1 ● - Boring Hole Location



Graphic Scale in Feet

**Chevron**

Skeen 2H Pumping Unit  
Unit C (NE 1/4 of NW 1/4)  
Sec. 2, T. 26 S., R. 27 E.,  
Eddy County, New Mexico  
32° 04' 42.83"N,  
104° 09' 47.46"W

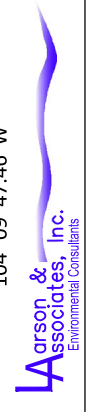


Figure 4 - Aerial Map Showing Boring Hole Location



## **Appendix A**

### **Chevron Spill Calculation**

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

|                 |                 |                       |           |              |              |
|-----------------|-----------------|-----------------------|-----------|--------------|--------------|
| Incident Date   |                 | 1/28/2020             |           |              |              |
| Incident Time   |                 | Start Time            |           | End Time     |              |
|                 |                 | 7:55 AM               |           | 8:00 AM      |              |
| Location        |                 | Skeen 2H Pumping Unit |           |              |              |
|                 |                 |                       |           |              |              |
| Area            | Standing Liquid | In Soil               | size      | Oil Volume   | Water Volume |
| 1               | 0.1667          | 0.26                  | 15 X 3.14 | 2.3          | 2.95         |
| 2               |                 |                       |           |              |              |
| 3               |                 |                       |           |              |              |
| 4               |                 |                       |           |              |              |
| 5               |                 |                       |           |              |              |
|                 |                 |                       |           |              |              |
| Total Fluid     |                 |                       |           | 2.3          | 2.95         |
|                 |                 |                       |           |              |              |
| Fluid Recovered |                 | Oil Volume            |           | Water Volume |              |
|                 |                 | 2                     |           | 2.95         |              |

## **Appendix B**

### **Boring Log**

# BORING RECORD

| GEOLOGIC UNIT         | DEPTH | Start: 11:30<br>Finish: 12:30<br>DESCRIPTION LITHOLOGIC                                                                        | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    |  | SAMPLE |             |          | REMARKS |                        |  |
|-----------------------|-------|--------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|---|---|---|----|----|----|----|----|--|--------|-------------|----------|---------|------------------------|--|
|                       |       |                                                                                                                                |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    |  | NUMBER | PID READING | RECOVERY | DEPTH   | BACKGROUND PID READING |  |
|                       |       |                                                                                                                                |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |  |        |             |          |         |                        |  |
| Depth to Water: 25.25 | 0     | Silty Sand, 7.5YR 8/2, Pinkish White, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-2cm Clast Inclusions               | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 5     | Caliche, 7.5YR 8/1, White, Rounded, Poorly Sorted, Medium Grained, Subangular, 0.5-1cm Diameter Clast Inclusions               | Caliche          |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 10    |                                                                                                                                |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 15    | Silty Sand, 7.5YR 6/6, Reddish Yellow, Rounded, Fine Grained, Poorly Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions     | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 20    | 7.5YR 6/8, Reddish Yellow, Subangular, 0.5-2.5cm Diameter Clast Inclusions                                                     | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 25    | Quartz Sand, 2.5YR 8/2, Pinkish White, Fine Grained, Rounded, Poorly Sorted, Subangular, 0.5-2cm Diameter Clast Inclusions     | SM               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 30    |                                                                                                                                |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 35    |                                                                                                                                |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 40    | Quartz Sand, Very Fine Grained, Well Rounded, Poorly Sorted, 7.5YR 8/1, White, Subangular Clast Inclusions, 0.5-1.5cm Diameter | SM               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
|                       | 45    |                                                                                                                                |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |
| 50                    |       |                                                                                                                                |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                        |  |



ONE CONTINUOUS AUGER SAMPLER



WATER TABLE ( TIME OF BORING )



STANDARD PENETRATION TEST



LABORATORY TEST LOCATION



UNDISTURBED SAMPLE



PENETROMETER ( TONS/ SQ. FT )



WATER TABLE ( 24 HRS )



NO RECOVERY

JOB NUMBER : Chevron/ 20-0107-03

HOLE DIAMETER : 2"

LOCATION : Skeen 2H - Carlsbad, NM

LAI GEOLOGIST : R. Nelson

DRILLING CONTRACTOR : SDI

DRILLING METHOD : Air Rotary



DRILL DATE :  
04-29-2020

BORING NUMBER :  
BH-1

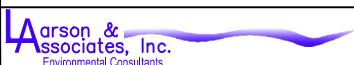


# BORING RECORD

| GEOLOGIC UNIT | DEPTH | Start: 11:30<br>Finish: 12:30<br>DESCRIPTION LITHOLOGIC                                                             | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    |                  | SAMPLE |             | REMARKS  |       |                        |
|---------------|-------|---------------------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|---|---|---|----|----|----|----|----|------------------|--------|-------------|----------|-------|------------------------|
|               |       |                                                                                                                     |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    |                  | NUMBER | PID READING | RECOVERY | DEPTH | BACKGROUND PID READING |
|               |       |                                                                                                                     |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | SOIL : _____ PPM |        |             |          |       |                        |
|               | 55    |                                                                                                                     |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          |       |                        |
|               | 60    |                                                                                                                     | SM               |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 60    |                        |
|               | 65    | Silty Sand, 18YR 6/5, Pale Brown, Rounded, Fine Grained, Moderately Sorted, Subangular, 0.5-1cm Diameter Inclusions |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 65    |                        |
|               | 70    |                                                                                                                     | ML               |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 70    |                        |
|               | 75    |                                                                                                                     |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 75    |                        |
|               | 80    | 2.5YR, Pink, Very Fine Grained, Well Rounded, Well Sorted, Subangular, 0.5-1cm Diameter Clast Inclusions            |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 80    |                        |
|               | 85    |                                                                                                                     | ML               |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 85    |                        |
|               | 90    |                                                                                                                     |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 90    |                        |
|               | 95    | TD: 95'                                                                                                             |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 95    |                        |
|               | 100   |                                                                                                                     |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 100   |                        |
|               | 105   |                                                                                                                     |                  |             |                |   |   |   |    |    |    |    |    |                  |        |             |          | 105   |                        |

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

JOB NUMBER : Chevron/ 20-0107-03  
 HOLE DIAMETER : 2"  
 LOCATION : Skeen 2H - Carlsbad, NM  
 LAI GEOLOGIST : R. Nelson  
 DRILLING CONTRACTOR : SDI  
 DRILLING METHOD : Air Rotary

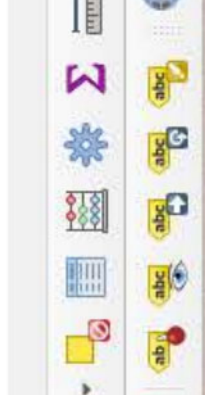


DRILL DATE :  
04-29-2020

BORING NUMBER :  
BH-1

## **Appendix C**

### **Karst Risk Potential**



## **Appendix D**

### **Laboratory Reports**



# Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03  
Contact: Mark Larson  
Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm  
Report Date: 02-MAR-20  
Project Manager: Holly Taylor



| Analysis Requested     | Lab Id:                     | 653356-001       | 653356-002       | 653356-003       | 653356-004       | 653356-005       | 653356-006       |
|------------------------|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                        | Field Id:                   | S-1 ( 0.0-5)     | S-1 ( 0.5-1)     | S-2 ( 0.0-5)     | S-2 ( 0.5-1)     | S-3 ( 0.0-5)     | S-3 ( 0.5-1)     |
|                        | Depth:                      | 0-0.5 ft         | 0.5-1 ft         | 0-0.5 ft         | 0.5-1 ft         | 0-0.5 ft         | 0.5-1 ft         |
|                        | Matrix:                     | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                        | Sampled:                    | Feb-20-20 11:40  | Feb-20-20 11:41  | Feb-20-20 11:53  | Feb-20-20 11:54  | Feb-20-20 11:43  | Feb-20-20 11:47  |
| BTEX by EPA 8021B      | Extracted:                  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  |
|                        | Analyzed:                   | Feb-29-20 14:03  | Feb-29-20 14:23  | Feb-29-20 14:43  | Feb-29-20 15:03  | Feb-29-20 15:23  | Feb-29-20 15:43  |
|                        | Units/RL:                   | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                        | Benzene                     | <0.00202 0.00202 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 |
|                        | Toluene                     | <0.00202 0.00202 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 |
|                        | Ethylbenzene                | <0.00202 0.00202 | <0.00200 0.00200 | 0.00370 0.00200  | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 |
| Chloride by EPA 300    | m,p-Xylenes                 | <0.00403 0.00403 | <0.00399 0.00399 | 0.0536 0.00401   | 0.0203 0.00401   | <0.00399 0.00399 | <0.00400 0.00400 |
|                        | o-Xylene                    | <0.00202 0.00202 | <0.00200 0.00200 | 0.0182 0.00200   | 0.00412 0.00200  | <0.00200 0.00200 | <0.00200 0.00200 |
|                        | Total Xylenes               | <0.00202 0.00202 | <0.00200 0.00200 | 0.0718 0.00200   | 0.0244 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 |
|                        | Total BTEX                  | <0.00202 0.00202 | <0.00200 0.00200 | 0.0755 0.00200   | 0.0244 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 |
|                        | Extracted:                  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  |
|                        | Analyzed:                   | Feb-24-20 13:45  | Feb-24-20 13:51  | Feb-24-20 13:58  | Feb-24-20 14:04  | Feb-24-20 14:23  | Feb-24-20 14:29  |
| TPH By SW8015 Mod      | Units/RL:                   | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                        | Chloride                    | 3210 49.7        | 3360 49.9        | 4230 50.2        | 4290 49.8        | 1020 49.7        | 677 24.9         |
|                        | Extracted:                  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  |
|                        | Analyzed:                   | Feb-24-20 14:36  | Feb-24-20 15:38  | Feb-24-20 15:59  | Feb-24-20 16:20  | Feb-24-20 16:41  | Feb-24-20 17:02  |
|                        | Units/RL:                   | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                        | Gasoline Range Hydrocarbons | <50.0 50.0       | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | <49.9 49.9       | <50.0 50.0       |
| Oil Range Hydrocarbons | Diesel Range Organics       | 468 50.0         | 237 50.0         | 411 50.0         | 681 49.8         | 614 49.9         | 711 50.0         |
|                        | Oil Range Hydrocarbons      | 55.2 50.0        | <50.0 50.0       | <50.0 50.0       | 71.5 49.8        | 79.9 49.9        | 84.0 50.0        |
|                        | Total TPH                   | 523 50.0         | 237 50.0         | 411 50.0         | 753 49.8         | 694 49.9         | 795 50.0         |
|                        |                             |                  |                  |                  |                  |                  |                  |

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

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

Holly Taylor

Holly Taylor  
Project Manager





# Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03

Contact: Mark Larson

Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm

Report Date: 02-MAR-20

Project Manager: Holly Taylor



| <i>Analysis Requested</i>   |                   | <i>Lab Id:</i>   | 653356-007       | 653356-008       | 653356-009       | 653356-010       | 653356-011       | 653356-012       |
|-----------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                             |                   | <i>Field Id:</i> | S-4 ( 0-0.5)     | S-4 ( 0.5-1)     | S-5 ( 0-0.5)     | S-5 ( 0.5-1)     | S-6 ( 0-0.5)     | S-6 ( 0.5-1)     |
|                             |                   | <i>Depth:</i>    | 0-0.5 ft         | 0.5-1 ft         | 0-0.5 ft         | 0.5-1 ft         | 0-0.5 ft         | 0.5-1 ft         |
|                             |                   | <i>Matrix:</i>   | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                             |                   | <i>Sampled:</i>  | Feb-20-20 11:36  | Feb-20-20 11:38  | Feb-20-20 11:50  | Feb-20-20 11:53  | Feb-20-20 12:02  | Feb-20-20 12:07  |
| <b>BTEX by EPA 8021B</b>    | <i>Extracted:</i> |                  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  | Feb-29-20 08:30  |
|                             | <i>Analyzed:</i>  |                  | Feb-29-20 16:03  | Feb-29-20 16:24  | Feb-29-20 16:44  | Feb-29-20 17:04  | Feb-29-20 18:23  | Feb-29-20 18:43  |
|                             | <i>Units/RL:</i>  |                  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                             |                   |                  | <0.00202 0.00202 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00198 0.00198 |
|                             |                   |                  | <0.00202 0.00202 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00198 0.00198 |
|                             |                   |                  | <0.00403 0.00403 | <0.00398 0.00398 | <0.00397 0.00397 | <0.00399 0.00399 | <0.00397 0.00397 | <0.00397 0.00397 |
| <b>Chloride by EPA 300</b>  | <i>Extracted:</i> |                  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  | Feb-24-20 12:40  |
|                             | <i>Analyzed:</i>  |                  | Feb-24-20 14:35  | Feb-24-20 14:41  | Feb-24-20 14:48  | Feb-24-20 15:13  | Feb-24-20 15:19  | Feb-24-20 15:38  |
|                             | <i>Units/RL:</i>  |                  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                             |                   |                  | 820 50.0         | 1050 50.0        | 126 50.3         | 151 49.5         | 916 25.0         | 657 49.9         |
|                             |                   |                  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  |
|                             |                   |                  | Feb-24-20 17:23  | Feb-24-20 17:44  | Feb-24-20 18:05  | Feb-24-20 18:26  | Feb-24-20 19:08  | Feb-24-20 19:29  |
| <b>TPH By SW8015 Mod</b>    | <i>Extracted:</i> |                  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  | Feb-24-20 13:00  |
|                             | <i>Analyzed:</i>  |                  | Feb-24-20 17:23  | Feb-24-20 17:44  | Feb-24-20 18:05  | Feb-24-20 18:26  | Feb-24-20 19:08  | Feb-24-20 19:29  |
|                             | <i>Units/RL:</i>  |                  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                             |                   |                  | <49.8 49.8       | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       |
| Gasoline Range Hydrocarbons |                   |                  | 404 49.8         | 597 50.0         | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       |
| Diesel Range Organics       |                   |                  | 52.5 49.8        | 66.3 50.0        | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       |
| Oil Range Hydrocarbons      |                   |                  | 457 49.8         | 663 50.0         | <50.0 50.0       | <49.9 49.9       | <49.9 49.9       | <49.8 49.8       |
| Total TPH                   |                   |                  |                  |                  |                  |                  |                  |                  |

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

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

Holly Taylor

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 653356

Larson and Associates, Inc., Midland, TX

Project Name: Sken 2H Pumping Unit

Project Id: 20-0107-03  
Contact: Mark Larson  
Project Location: NM

Date Received in Lab: Fri Feb-21-20 03:47 pm  
Report Date: 02-MAR-20  
Project Manager: Holly Taylor



| <i>Analysis Requested</i>   |  | <i>Lab Id:</i>    | <i>Field Id:</i> | <i>Depth:</i> | <i>Matrix:</i> | <i>Sampled:</i> | <i>653356-013</i> | <i>653356-014</i> | <i>653356-015</i> | <i>653356-016</i> |      |
|-----------------------------|--|-------------------|------------------|---------------|----------------|-----------------|-------------------|-------------------|-------------------|-------------------|------|
| <b>BTEX by EPA 8021B</b>    |  | <i>Extracted:</i> | Mar-01-20 10:00  |               |                |                 | Mar-01-20 10:00   | Mar-01-20 10:00   | Mar-01-20 10:00   | Mar-01-20 10:00   |      |
|                             |  | <i>Analyzed:</i>  | Mar-01-20 15:49  |               |                |                 | Mar-01-20 16:09   | Mar-01-20 16:30   | Mar-01-20 16:50   | Mar-01-20 16:50   |      |
|                             |  | <i>Units/RL:</i>  | mg/kg RL         |               |                |                 | mg/kg RL          | mg/kg RL          | mg/kg RL          | mg/kg RL          |      |
| Benzene                     |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| Toluene                     |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| Ethylbenzene                |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| m,p-Xylenes                 |  |                   | <0.00398         | 0.00398       |                |                 | <0.00399          | 0.00399           | <0.00401          | 0.00401           |      |
| o-Xylene                    |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| Total Xylenes               |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| Total BTEX                  |  |                   | <0.00199         | 0.00199       |                |                 | <0.00200          | 0.00200           | <0.00199          | 0.00199           |      |
| <b>Chloride by EPA 300</b>  |  | <i>Extracted:</i> | Feb-24-20 12:40  |               |                |                 | Feb-24-20 12:40   | Feb-24-20 12:40   | Feb-24-20 12:40   | Feb-24-20 12:40   |      |
|                             |  | <i>Analyzed:</i>  | Feb-24-20 15:44  |               |                |                 | Feb-24-20 15:50   | Feb-24-20 15:56   | Feb-24-20 16:03   | Feb-24-20 16:03   |      |
|                             |  | <i>Units/RL:</i>  | mg/kg RL         |               |                |                 | mg/kg RL          | mg/kg RL          | mg/kg RL          | mg/kg RL          |      |
| Chloride                    |  |                   | 504              | 50.3          |                |                 | 877               | 25.3              | 152               | 111               | 50.5 |
| <b>TPH By SW8015 Mod</b>    |  | <i>Extracted:</i> | Feb-24-20 13:00  |               |                |                 | Feb-24-20 13:00   | Feb-24-20 13:00   | Feb-24-20 13:00   | Feb-24-20 13:00   |      |
|                             |  | <i>Analyzed:</i>  | Feb-24-20 19:50  |               |                |                 | Feb-24-20 20:11   | Feb-24-20 20:32   | Feb-24-20 20:53   | Feb-24-20 20:53   |      |
|                             |  | <i>Units/RL:</i>  | mg/kg RL         |               |                |                 | mg/kg RL          | mg/kg RL          | mg/kg RL          | mg/kg RL          |      |
| Gasoline Range Hydrocarbons |  |                   | <50.0            | 50.0          |                |                 | <50.0             | 49.9              | <49.9             | <50.0             | 50.0 |
| Diesel Range Organics       |  |                   | 455              | 50.0          |                |                 | 60.7              | 50.0              | 103               | <50.0             | 50.0 |
| Oil Range Hydrocarbons      |  |                   | 62.2             | 50.0          |                |                 | <50.0             | 50.0              | <49.9             | <50.0             | 50.0 |
| Total TPH                   |  |                   | 517              | 50.0          |                |                 | 60.7              | 50.0              | 103               | <50.0             | 50.0 |

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

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

*Holly Taylor*

Holly Taylor  
Project Manager

# **Analytical Report 653356**

**for  
Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Skeen 2H Pumping Unit**

**20-0107-03**

**02-MAR-20**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



02-MAR-20

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: XENCO Report No(s): **653356**  
**Skeen 2H Pumping Unit**  
Project Address: NM

**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) 653356. 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. 653356 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,

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**Holly Taylor**  
Project Manager

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

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



## Sample Cross Reference 653356



Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

| Sample Id    | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------|--------|----------------|--------------|---------------|
| S-1 ( 0-0.5) | S      | 02-20-20 11:40 | 0 - 0.5 ft   | 653356-001    |
| S-1 ( 0.5-1) | S      | 02-20-20 11:41 | 0.5 - 1 ft   | 653356-002    |
| S-2 ( 0-0.5) | S      | 02-20-20 11:53 | 0 - 0.5 ft   | 653356-003    |
| S-2 ( 0.5-1) | S      | 02-20-20 11:54 | 0.5 - 1 ft   | 653356-004    |
| S-3 ( 0-0.5) | S      | 02-20-20 11:43 | 0 - 0.5 ft   | 653356-005    |
| S-3 ( 0.5-1) | S      | 02-20-20 11:47 | 0.5 - 1 ft   | 653356-006    |
| S-4 ( 0-0.5) | S      | 02-20-20 11:36 | 0 - 0.5 ft   | 653356-007    |
| S-4 ( 0.5-1) | S      | 02-20-20 11:38 | 0.5 - 1 ft   | 653356-008    |
| S-5 ( 0-0.5) | S      | 02-20-20 11:50 | 0 - 0.5 ft   | 653356-009    |
| S-5 ( 0.5-1) | S      | 02-20-20 11:53 | 0.5 - 1 ft   | 653356-010    |
| S-6 ( 0-0.5) | S      | 02-20-20 12:02 | 0 - 0.5 ft   | 653356-011    |
| S-6 ( 0.5-1) | S      | 02-20-20 12:07 | 0.5 - 1 ft   | 653356-012    |
| S-7 ( 0-0.5) | S      | 02-20-20 12:11 | 0 - 0.5 ft   | 653356-013    |
| S-7 ( 0.5-1) | S      | 02-20-20 12:13 | 0.5 - 1 ft   | 653356-014    |
| S-8 ( 0-0.5) | S      | 02-20-20 12:06 | 0 - 0.5 ft   | 653356-015    |
| S-8 ( 0.5-1) | S      | 02-20-20 12:07 | 0.5 - 1 ft   | 653356-016    |





## CASE NARRATIVE

***Client Name: Larson and Associates, Inc.***

***Project Name: Skeen 2H Pumping Unit***

Project ID: 20-0107-03  
Work Order Number(s): 653356

Report Date: 02-MAR-20  
Date Received: 02/21/2020

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**Sample receipt non conformances and comments:**

None

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3118121 BTEX by EPA 8021B

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

Batch: LBA-3118135 BTEX by EPA 8021B

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



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: S-1 ( 0-0.5)

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-001

Date Collected: 02.20.20 11.40

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3210   | 49.7 | mg/kg | 02.24.20 13.45 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 14.36 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 468    | 50.0 | mg/kg | 02.24.20 14.36 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 55.2   | 50.0 | mg/kg | 02.24.20 14.36 |      | 1   |
| Total TPH                   | PHC635     | 523    | 50.0 | mg/kg | 02.24.20 14.36 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 02.24.20 14.36 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 02.24.20 14.36 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: S-1 (0-0.5)

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-001

Date Collected: 02.20.20 11.40

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.29.20 14.03       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 96                | %            | 70-130        | 02.29.20 14.03       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 101               | %            | 70-130        | 02.29.20 14.03       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-1 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-002

Date Collected: 02.20.20 11.41

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3360   | 49.9 | mg/kg | 02.24.20 13.51 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 15.38 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 237    | 50.0 | mg/kg | 02.24.20 15.38 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.24.20 15.38 | U    | 1   |
| Total TPH                   | PHC635     | 237    | 50.0 | mg/kg | 02.24.20 15.38 |      | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 88         | %     | 70-135 | 02.24.20 15.38 |      |
| 84-15-1    | 98         | %     | 70-135 | 02.24.20 15.38 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-1 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-002

Date Collected: 02.20.20 11.41

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.29.20 14.23       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 105               | %            | 70-130        | 02.29.20 14.23       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 02.29.20 14.23       |             |     |





# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-003

Date Collected: 02.20.20 11.53

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 4230   | 50.2 | mg/kg | 02.24.20 13.58 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 15.59 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 411    | 50.0 | mg/kg | 02.24.20 15.59 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.24.20 15.59 | U    | 1   |
| Total TPH                   | PHC635     | 411    | 50.0 | mg/kg | 02.24.20 15.59 |      | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 90         | %     | 70-135 | 02.24.20 15.59 |      |
| 84-15-1    | 100        | %     | 70-135 | 02.24.20 15.59 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-003

Date Collected: 02.20.20 11.53

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number  | Result         | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|----------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00200       | 0.00200 | mg/kg | 02.29.20 14.43 | U              | 1    |
| Toluene              | 108-88-3    | <0.00200       | 0.00200 | mg/kg | 02.29.20 14.43 | U              | 1    |
| Ethylbenzene         | 100-41-4    | <b>0.00370</b> | 0.00200 | mg/kg | 02.29.20 14.43 |                | 1    |
| m,p-Xylenes          | 179601-23-1 | <b>0.0536</b>  | 0.00401 | mg/kg | 02.29.20 14.43 |                | 1    |
| o-Xylene             | 95-47-6     | <b>0.0182</b>  | 0.00200 | mg/kg | 02.29.20 14.43 |                | 1    |
| Total Xylenes        | 1330-20-7   | <b>0.0718</b>  | 0.00200 | mg/kg | 02.29.20 14.43 |                | 1    |
| Total BTEX           |             | <b>0.0755</b>  | 0.00200 | mg/kg | 02.29.20 14.43 |                | 1    |
| Surrogate            | Cas Number  | % Recovery     |         | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene | 460-00-4    | 120            |         | %     | 70-130         | 02.29.20 14.43 |      |
| 1,4-Difluorobenzene  | 540-36-3    | 88             |         | %     | 70-130         | 02.29.20 14.43 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-2 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-004

Date Collected: 02.20.20 11.54

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 4290   | 49.8 | mg/kg | 02.24.20 14.04 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.8  | 49.8 | mg/kg | 02.24.20 16.20 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 681    | 49.8 | mg/kg | 02.24.20 16.20 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 71.5   | 49.8 | mg/kg | 02.24.20 16.20 |      | 1   |
| Total TPH                   | PHC635     | 753    | 49.8 | mg/kg | 02.24.20 16.20 |      | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 96         | %     | 70-135 | 02.24.20 16.20 |      |
| 84-15-1    | 106        | %     | 70-135 | 02.24.20 16.20 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-2 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-004

Date Collected: 02.20.20 11.54

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.03       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.03       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.03       | U           | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.0203</b>     | 0.00401      | mg/kg         | 02.29.20 15.03       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.00412</b>    | 0.00200      | mg/kg         | 02.29.20 15.03       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.0244</b>     | 0.00200      | mg/kg         | 02.29.20 15.03       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.0244</b>     | 0.00200      | mg/kg         | 02.29.20 15.03       |             | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 112               | %            | 70-130        | 02.29.20 15.03       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 93                | %            | 70-130        | 02.29.20 15.03       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-005

Date Collected: 02.20.20 11.43

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1020   | 49.7 | mg/kg | 02.24.20 14.23 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.9  | 49.9 | mg/kg | 02.24.20 16.41 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 614    | 49.9 | mg/kg | 02.24.20 16.41 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 79.9   | 49.9 | mg/kg | 02.24.20 16.41 |      | 1   |
| Total TPH                   | PHC635     | 694    | 49.9 | mg/kg | 02.24.20 16.41 |      | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 89         | %     | 70-135 | 02.24.20 16.41 |      |
| 84-15-1    | 104        | %     | 70-135 | 02.24.20 16.41 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: S-3 ( 0-0.5)

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-005

Date Collected: 02.20.20 11.43

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.23       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 02.29.20 15.23       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 103               | %            | 70-130        | 02.29.20 15.23       |             |     |





# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-3 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-006

Date Collected: 02.20.20 11.47

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 677    | 24.9 | mg/kg | 02.24.20 14.29 |      | 5   |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 17.02 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 711    | 50.0 | mg/kg | 02.24.20 17.02 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 84.0   | 50.0 | mg/kg | 02.24.20 17.02 |      | 1   |
| Total TPH                   | PHC635     | 795    | 50.0 | mg/kg | 02.24.20 17.02 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 02.24.20 17.02 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 02.24.20 17.02 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-3 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-006

Date Collected: 02.20.20 11.47

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.29.20 15.43       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 02.29.20 15.43       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 102               | %            | 70-130        | 02.29.20 15.43       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-007

Date Collected: 02.20.20 11.36

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 820    | 50.0 | mg/kg | 02.24.20 14.35 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.8  | 49.8 | mg/kg | 02.24.20 17.23 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 404    | 49.8 | mg/kg | 02.24.20 17.23 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 52.5   | 49.8 | mg/kg | 02.24.20 17.23 |      | 1   |
| Total TPH                   | PHC635     | 457    | 49.8 | mg/kg | 02.24.20 17.23 |      | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 91         | %     | 70-135 | 02.24.20 17.23 |      |
| 84-15-1    | 100        | %     | 70-135 | 02.24.20 17.23 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-007

Date Collected: 02.20.20 11.36

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.29.20 16.03       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 105               | %            | 70-130        | 02.29.20 16.03       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 94                | %            | 70-130        | 02.29.20 16.03       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-4 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-008

Date Collected: 02.20.20 11.38

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1050   | 50.0 | mg/kg | 02.24.20 14.41 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 17.44 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 597    | 50.0 | mg/kg | 02.24.20 17.44 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 66.3   | 50.0 | mg/kg | 02.24.20 17.44 |      | 1   |
| Total TPH                   | PHC635     | 663    | 50.0 | mg/kg | 02.24.20 17.44 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 02.24.20 17.44 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 02.24.20 17.44 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-4 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-008

Date Collected: 02.20.20 11.38

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.29.20 16.24       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 111               | %            | 70-130        | 02.29.20 16.24       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 95                | %            | 70-130        | 02.29.20 16.24       |             |     |





# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-009

Date Collected: 02.20.20 11.50

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 126    | 50.3 | mg/kg | 02.24.20 14.48 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 18.05 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.24.20 18.05 | U    | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.24.20 18.05 | U    | 1   |
| Total TPH                   | PHC635     | <50.0  | 50.0 | mg/kg | 02.24.20 18.05 | U    | 1   |

#### Surrogate

1-Chlorooctane

o-Terphenyl

| Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|------------|------------|-------|--------|----------------|------|
| 111-85-3   | 91         | %     | 70-135 | 02.24.20 18.05 |      |
| 84-15-1    | 94         | %     | 70-135 | 02.24.20 18.05 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-009

Date Collected: 02.20.20 11.50

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 02.29.20 16.44       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 101               | %            | 70-130        | 02.29.20 16.44       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 02.29.20 16.44       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-5 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-010

Date Collected: 02.20.20 11.53

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 151    | 49.5 | mg/kg | 02.24.20 15.13 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|-----------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons | PHC610            | <49.9             | 49.9         | mg/kg         | 02.24.20 18.26       | U           | 1   |
| Diesel Range Organics       | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 02.24.20 18.26       | U           | 1   |
| Oil Range Hydrocarbons      | PHCG2835          | <49.9             | 49.9         | mg/kg         | 02.24.20 18.26       | U           | 1   |
| Total TPH                   | PHC635            | <49.9             | 49.9         | mg/kg         | 02.24.20 18.26       | U           | 1   |
| <b>Surrogate</b>            | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane              | 111-85-3          | 109               | %            | 70-135        | 02.24.20 18.26       |             |     |
| o-Terphenyl                 | 84-15-1           | 120               | %            | 70-135        | 02.24.20 18.26       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-5 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-010

Date Collected: 02.20.20 11.53

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.29.20 17.04       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 02.29.20 17.04       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 70-130        | 02.29.20 17.04       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-011

Date Collected: 02.20.20 12.02

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 916    | 25.0 | mg/kg | 02.24.20 15.19 |      | 5   |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.9  | 49.9 | mg/kg | 02.24.20 19.08 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.24.20 19.08 | U    | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.24.20 19.08 | U    | 1   |
| Total TPH                   | PHC635     | <49.9  | 49.9 | mg/kg | 02.24.20 19.08 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 02.24.20 19.08 |      |
| o-Terphenyl    | 84-15-1    | 91         | %     | 70-135 | 02.24.20 19.08 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-011

Date Collected: 02.20.20 12.02

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.23       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 97                | %            | 70-130        | 02.29.20 18.23       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 82                | %            | 70-130        | 02.29.20 18.23       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-6 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-012

Date Collected: 02.20.20 12.07

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 657    | 49.9 | mg/kg | 02.24.20 15.38 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.8  | 49.8 | mg/kg | 02.24.20 19.29 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | <49.8  | 49.8 | mg/kg | 02.24.20 19.29 | U    | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <49.8  | 49.8 | mg/kg | 02.24.20 19.29 | U    | 1   |
| Total TPH                   | PHC635     | <49.8  | 49.8 | mg/kg | 02.24.20 19.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 02.24.20 19.29 |      |
| o-Terphenyl    | 84-15-1    | 94         | %     | 70-135 | 02.24.20 19.29 |      |





# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: **S-6 (0.5-1)**

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-012

Date Collected: 02.20.20 12.07

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.29.20 08.30

Basis: Wet Weight

Seq Number: 3118121

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 02.29.20 18.43       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 02.29.20 18.43       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 02.29.20 18.43       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-013

Date Collected: 02.20.20 12.11

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 504    | 50.3 | mg/kg | 02.24.20 15.44 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 19.50 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 455    | 50.0 | mg/kg | 02.24.20 19.50 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | 62.2   | 50.0 | mg/kg | 02.24.20 19.50 |      | 1   |
| Total TPH                   | PHC635     | 517    | 50.0 | mg/kg | 02.24.20 19.50 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 02.24.20 19.50 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 02.24.20 19.50 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

Sample Id: S-7 (0-0.5)

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-013

Date Collected: 02.20.20 12.11

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.01.20 10.00

Basis: Wet Weight

Seq Number: 3118135

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 03.01.20 15.49       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 03.01.20 15.49       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 70-130        | 03.01.20 15.49       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-014

Date Collected: 02.20.20 12.13

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 877    | 25.3 | mg/kg | 02.24.20 15.50 |      | 5   |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 20.11 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 60.7   | 50.0 | mg/kg | 02.24.20 20.11 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.24.20 20.11 | U    | 1   |
| Total TPH                   | PHC635     | 60.7   | 50.0 | mg/kg | 02.24.20 20.11 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 02.24.20 20.11 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 02.24.20 20.11 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-014

Date Collected: 02.20.20 12.13

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.01.20 10.00

Basis: Wet Weight

Seq Number: 3118135

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.09       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 88                | %            | 70-130        | 03.01.20 16.09       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 03.01.20 16.09       |             |     |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-015

Date Collected: 02.20.20 12.06

Sample Depth: 0 - 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 152    | 25.3 | mg/kg | 02.24.20 15.56 |      | 5   |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <49.9  | 49.9 | mg/kg | 02.24.20 20.32 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | 103    | 49.9 | mg/kg | 02.24.20 20.32 |      | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.24.20 20.32 | U    | 1   |
| Total TPH                   | PHC635     | 103    | 49.9 | mg/kg | 02.24.20 20.32 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 02.24.20 20.32 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 02.24.20 20.32 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-015

Date Collected: 02.20.20 12.06

Sample Depth: 0 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.01.20 10.00

Basis: Wet Weight

Seq Number: 3118135

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.01.20 16.30       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 03.01.20 16.30       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 86                | %            | 70-130        | 03.01.20 16.30       |             |     |





# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-016

Date Collected: 02.20.20 12.07

Sample Depth: 0.5 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 02.24.20 12.40

Basis: Wet Weight

Seq Number: 3117491

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 111    | 50.5 | mg/kg | 02.24.20 16.03 |      | 10  |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 02.24.20 13.00

Basis: Wet Weight

Seq Number: 3117576

| Parameter                   | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610     | <50.0  | 50.0 | mg/kg | 02.24.20 20.53 | U    | 1   |
| Diesel Range Organics       | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.24.20 20.53 | U    | 1   |
| Oil Range Hydrocarbons      | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.24.20 20.53 | U    | 1   |
| Total TPH                   | PHC635     | <50.0  | 50.0 | mg/kg | 02.24.20 20.53 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 02.24.20 20.53 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 02.24.20 20.53 |      |



# Certificate of Analytical Results 653356



## Larson and Associates, Inc., Midland, TX

### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 02.21.20 15.47

Lab Sample Id: 653356-016

Date Collected: 02.20.20 12.07

Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.01.20 10.00

Basis: Wet Weight

Seq Number: 3118135

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 03.01.20 16.50       | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 83                | %            | 70-130        | 03.01.20 16.50       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 03.01.20 16.50       |             |     |

- 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

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



## QC Summary 653356

### Larson and Associates, Inc. Skeen 2H Pumping Unit

**Analytical Method: Chloride by EPA 300**

Seq Number: 3117491

MB Sample Id: 7697309-1-BLK

Matrix: Solid

LCS Sample Id: 7697309-1-BKS

Prep Method: E300P

Date Prep: 02.24.20

LCSD Sample Id: 7697309-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <0.858    | 250          | 251        | 100      | 250         | 100       | 90-110 | 0    | 20        | mg/kg | 02.24.20 13:14 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3117491

Parent Sample Id: 653386-006

Matrix: Soil

MS Sample Id: 653386-006 S

Prep Method: E300P

Date Prep: 02.24.20

MSD Sample Id: 653386-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 42.9          | 202          | 237       | 96      | 240        | 98       | 90-110 | 1    | 20        | mg/kg | 02.24.20 13:33 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3117491

Parent Sample Id: 653390-001

Matrix: Soil

MS Sample Id: 653390-001 S

Prep Method: E300P

Date Prep: 02.24.20

MSD Sample Id: 653390-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 267           | 200          | 466       | 100     | 467        | 100      | 90-110 | 0    | 20        | mg/kg | 02.24.20 15:00 |      |

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3117576

MB Sample Id: 7697335-1-BLK

Matrix: Solid

LCS Sample Id: 7697335-1-BKS

Prep Method: SW8015P

Date Prep: 02.24.20

LCSD Sample Id: 7697335-1-BSD

| Parameter                   | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons | <15.0     | 1000         | 879        | 88       | 876         | 88        | 70-135 | 0    | 20        | mg/kg | 02.24.20 13:54 |      |
| Diesel Range Organics       | <15.0     | 1000         | 967        | 97       | 930         | 93        | 70-135 | 4    | 20        | mg/kg | 02.24.20 13:54 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 99      |         | 106      |          | 102       |           | 70-135 | %     | 02.24.20 13:54 |
| o-Terphenyl    | 106     |         | 109      |          | 105       |           | 70-135 | %     | 02.24.20 13:54 |

**Analytical Method: TPH By SW8015 Mod**

Seq Number: 3117576

Matrix: Solid

MB Sample Id: 7697335-1-BLK

Prep Method: SW8015P

Date Prep: 02.24.20

| Parameter              | MB Result | Units | Analysis Date  | Flag |
|------------------------|-----------|-------|----------------|------|
| Oil Range Hydrocarbons | <50.0     | mg/kg | 02.24.20 13:33 |      |

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

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

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

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



## QC Summary 653356

### Larson and Associates, Inc. Skeen 2H Pumping Unit

Analytical Method: TPH By SW8015 Mod

Seq Number: 3117576

Parent Sample Id: 653356-001

Matrix: Soil

MS Sample Id: 653356-001 S

Prep Method: SW8015P

Date Prep: 02.24.20

MSD Sample Id: 653356-001 SD

| Parameter                   | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons | <15.0         | 998          | 880       | 88      | 878        | 88       | 70-135 | 0    | 20        | mg/kg | 02.24.20 14:56 |      |
| Diesel Range Organics       | 468           | 998          | 1470      | 100     | 1450       | 98       | 70-135 | 1    | 20        | mg/kg | 02.24.20 14:56 |      |

#### Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 94      |         | 94       |          | 70-135 | %     | 02.24.20 14:56 |
| o-Terphenyl    | 110     |         | 109      |          | 70-135 | %     | 02.24.20 14:56 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118121

MB Sample Id: 7697783-1-BLK

Matrix: Solid

LCS Sample Id: 7697783-1-BKS

Prep Method: SW5030B

Date Prep: 02.29.20

LCSD Sample Id: 7697783-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000385 | 0.100        | 0.116      | 116      | 0.117       | 117       | 70-130 | 1    | 35        | mg/kg | 02.29.20 11:43 |      |
| Toluene      | <0.000456 | 0.100        | 0.107      | 107      | 0.114       | 114       | 70-130 | 6    | 35        | mg/kg | 02.29.20 11:43 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.101      | 101      | 0.108       | 108       | 70-130 | 7    | 35        | mg/kg | 02.29.20 11:43 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.198      | 99       | 0.216       | 108       | 70-130 | 9    | 35        | mg/kg | 02.29.20 11:43 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.0983     | 98       | 0.107       | 107       | 70-130 | 8    | 35        | mg/kg | 02.29.20 11:43 |      |

#### Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 97      |         | 100      |          | 99        |           | 70-130 | %     | 02.29.20 11:43 |
| 4-Bromofluorobenzene | 86      |         | 92       |          | 98        |           | 70-130 | %     | 02.29.20 11:43 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118135

MB Sample Id: 7697798-1-BLK

Matrix: Solid

LCS Sample Id: 7697798-1-BKS

Prep Method: SW5030B

Date Prep: 03.01.20

LCSD Sample Id: 7697798-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000385 | 0.100        | 0.124      | 124      | 0.107       | 107       | 70-130 | 15   | 35        | mg/kg | 03.01.20 12:50 |      |
| Toluene      | <0.000456 | 0.100        | 0.117      | 117      | 0.107       | 107       | 70-130 | 9    | 35        | mg/kg | 03.01.20 12:50 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.112      | 112      | 0.103       | 103       | 70-130 | 8    | 35        | mg/kg | 03.01.20 12:50 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.222      | 111      | 0.209       | 105       | 70-130 | 6    | 35        | mg/kg | 03.01.20 12:50 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.111      | 111      | 0.104       | 104       | 70-130 | 7    | 35        | mg/kg | 03.01.20 12:50 |      |

#### Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 93      |         | 102      |          | 100       |           | 70-130 | %     | 03.01.20 12:50 |
| 4-Bromofluorobenzene | 83      |         | 97       |          | 100       |           | 70-130 | %     | 03.01.20 12:50 |

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

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

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

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



## QC Summary 653356

### Larson and Associates, Inc. Skeen 2H Pumping Unit

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118121

Parent Sample Id: 653356-002

Matrix: Soil

MS Sample Id: 653356-002 S

Prep Method: SW5030B

Date Prep: 02.29.20

MSD Sample Id: 653356-002 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000382     | 0.0992       | 0.100     | 101     | 0.109      | 109      | 70-130 | 9    | 35        | mg/kg | 02.29.20 12:24 |      |
| Toluene      | 0.000719      | 0.0992       | 0.0937    | 94      | 0.100      | 100      | 70-130 | 7    | 35        | mg/kg | 02.29.20 12:24 |      |
| Ethylbenzene | <0.000560     | 0.0992       | 0.0806    | 81      | 0.0901     | 90       | 70-130 | 11   | 35        | mg/kg | 02.29.20 12:24 |      |
| m,p-Xylenes  | <0.00101      | 0.198        | 0.157     | 79      | 0.177      | 89       | 70-130 | 12   | 35        | mg/kg | 02.29.20 12:24 |      |
| o-Xylene     | 0.000439      | 0.0992       | 0.0782    | 78      | 0.0876     | 88       | 70-130 | 11   | 35        | mg/kg | 02.29.20 12:24 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 102     |         | 98       |          | 70-130 | %     | 02.29.20 12:24 |
| 4-Bromofluorobenzene | 77      |         | 96       |          | 70-130 | %     | 02.29.20 12:24 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3118135

Parent Sample Id: 653393-002

Matrix: Soil

MS Sample Id: 653393-002 S

Prep Method: SW5030B

Date Prep: 03.01.20

MSD Sample Id: 653393-002 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000387     | 0.101        | 0.137     | 136     | 0.132      | 132      | 70-130 | 4    | 35        | mg/kg | 03.01.20 13:30 | X    |
| Toluene      | <0.000458     | 0.101        | 0.130     | 129     | 0.121      | 121      | 70-130 | 7    | 35        | mg/kg | 03.01.20 13:30 |      |
| Ethylbenzene | <0.000568     | 0.101        | 0.120     | 119     | 0.111      | 111      | 70-130 | 8    | 35        | mg/kg | 03.01.20 13:30 |      |
| m,p-Xylenes  | <0.00102      | 0.201        | 0.229     | 114     | 0.212      | 106      | 70-130 | 8    | 35        | mg/kg | 03.01.20 13:30 |      |
| o-Xylene     | <0.000346     | 0.101        | 0.116     | 115     | 0.108      | 108      | 70-130 | 7    | 35        | mg/kg | 03.01.20 13:30 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 102     |         | 103      |          | 70-130 | %     | 03.01.20 13:30 |
| 4-Bromofluorobenzene | 96      |         | 101      |          | 70-130 | %     | 03.01.20 13:30 |

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

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

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

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



Final 1.000





# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 02/21/2020 03:47:00 PM

**Work Order #:** 653356

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R8

### Sample Receipt Checklist

### Comments

|                                                         |      |
|---------------------------------------------------------|------|
| #1 *Temperature of cooler(s)?                           | -1.4 |
| #2 *Shipping container in good condition?               | Yes  |
| #3 *Samples received on ice?                            | Yes  |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A  |
| #5 Custody Seals intact on sample bottles?              | N/A  |
| #6 *Custody Seals Signed and dated?                     | N/A  |
| #7 *Chain of Custody present?                           | Yes  |
| #8 Any missing/extra samples?                           | No   |
| #9 Chain of Custody signed when relinquished/ received? | Yes  |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes  |
| #11 Container label(s) legible and intact?              | Yes  |
| #12 Samples in proper container/ bottle?                | Yes  |
| #13 Samples properly preserved?                         | Yes  |
| #14 Sample container(s) intact?                         | Yes  |
| #15 Sufficient sample amount for indicated test(s)?     | Yes  |
| #16 All samples received within hold time?              | Yes  |
| #17 Subcontract of sample(s)?                           | N/A  |
| #18 Water VOC samples have zero headspace?              | N/A  |

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

Analyst:

PH Device/Lot#:

**Checklist completed by:**

Alexis Jaime

Date: 02/21/2020

**Checklist reviewed by:**

Holly Taylor

Date: 03/02/2020



# Certificate of Analysis Summary 656204

## Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49  
Report Date: 03.26.2020 13:35  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>                                                                                           | <i>Lab Id:</i>    | 656204-001        | <i>Field Id:</i>  | 656204-002         | <i>Depth:</i>     | 656204-003         | <i>Matrix:</i>    | 656204-004         | <i>Sampled:</i>   | 656204-005        | <i>SOIL</i>       | 656204-006         |
|---------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|
|                                                                                                                     | <i>Field Id:</i>  | S-1 (2')          | <i>Field Id:</i>  | S-1 (3')           | <i>Field Id:</i>  | S-1 (5')           | <i>Field Id:</i>  | S-1 (10')          | <i>Field Id:</i>  | S-7 (2')          | <i>Field Id:</i>  | S-7 (3')           |
|                                                                                                                     | <i>Depth:</i>     | SOIL              | <i>Depth:</i>     | SOIL               | <i>Depth:</i>     | SOIL               | <i>Depth:</i>     | SOIL               | <i>Depth:</i>     | SOIL              | <i>Depth:</i>     | SOIL               |
|                                                                                                                     | <i>Matrix:</i>    | SOIL              | <i>Matrix:</i>    | SOIL               | <i>Matrix:</i>    | SOIL               | <i>Matrix:</i>    | SOIL               | <i>Matrix:</i>    | SOIL              | <i>Matrix:</i>    | SOIL               |
|                                                                                                                     | <i>Sampled:</i>   | 03.17.2020 12:55  | <i>Sampled:</i>   | 03.17.2020 12:56   | <i>Sampled:</i>   | 03.17.2020 13:05   | <i>Sampled:</i>   | 03.17.2020 13:06   | <i>Sampled:</i>   | 03.17.2020 13:18  | <i>Sampled:</i>   | 03.17.2020 13:19   |
| Chloride by EPA 300                                                                                                 | <i>Extracted:</i> | 03.20.2020 11:05  | <i>Extracted:</i> | 03.23.2020 11:00   | <i>Extracted:</i> | 03.23.2020 11:00   | <i>Extracted:</i> | 03.23.2020 11:00   | <i>Extracted:</i> | 03.20.2020 11:05  | <i>Extracted:</i> | 03.20.2020 11:15   |
|                                                                                                                     | <i>Analyzed:</i>  | 03.20.2020 13:52  | <i>Analyzed:</i>  | 03.23.2020 14:32   | <i>Analyzed:</i>  | 03.23.2020 14:38   | <i>Analyzed:</i>  | 03.23.2020 14:44   | <i>Analyzed:</i>  | 03.20.2020 14:17  | <i>Analyzed:</i>  | 03.20.2020 15:21   |
|                                                                                                                     | <i>Units/RL:</i>  | mg/kg RL 123 49.7 | <i>Units/RL:</i>  | mg/kg RL 7.00 4.98 | <i>Units/RL:</i>  | mg/kg RL 5.88 4.99 | <i>Units/RL:</i>  | mg/kg RL 29.5 4.97 | <i>Units/RL:</i>  | mg/kg RL 478 50.5 | <i>Units/RL:</i>  | mg/kg RL 61.6 49.7 |
| TPH by SW8015 Mod                                                                                                   | <i>Extracted:</i> | 03.20.2020 11:00  | <i>Extracted:</i> | 03.20.2020 11:00   | <i>Extracted:</i> | 03.20.2020 11:00   | <i>Extracted:</i> | 03.20.2020 11:00   | <i>Extracted:</i> | 03.20.2020 11:00  | <i>Extracted:</i> |                    |
|                                                                                                                     | <i>Analyzed:</i>  | 03.20.2020 13:04  | <i>Analyzed:</i>  | 03.20.2020 14:07   | <i>Analyzed:</i>  | 03.20.2020 14:28   | <i>Analyzed:</i>  | 03.20.2020 14:49   | <i>Analyzed:</i>  | 03.20.2020 14:49  | <i>Analyzed:</i>  |                    |
|                                                                                                                     | <i>Units/RL:</i>  | mg/kg RL          | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL          | <i>Units/RL:</i>  |                    |
| Gasoline Range Hydrocarbons (GRO)<br>Diesel Range Organics (DRO)<br>Motor Oil Range Hydrocarbons (MRO)<br>Total TPH | <i>Extracted:</i> | <50.0 50.0        | <i>Extracted:</i> | <49.8 49.8         | <i>Extracted:</i> | <50.0 50.0         | <i>Extracted:</i> | <49.9 49.9         | <i>Extracted:</i> | <49.9 49.9        | <i>Extracted:</i> |                    |
|                                                                                                                     | <i>Analyzed:</i>  | <50.0 50.0        | <i>Analyzed:</i>  | <49.8 49.8         | <i>Analyzed:</i>  | <50.0 50.0         | <i>Analyzed:</i>  | <49.9 49.9         | <i>Analyzed:</i>  | <49.9 49.9        | <i>Analyzed:</i>  |                    |
|                                                                                                                     | <i>Units/RL:</i>  | mg/kg RL          | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL           | <i>Units/RL:</i>  | mg/kg RL          | <i>Units/RL:</i>  |                    |
|                                                                                                                     | <i>Sampled:</i>   | 03.17.2020 12:55  | <i>Sampled:</i>   | 03.17.2020 12:56   | <i>Sampled:</i>   | 03.17.2020 13:05   | <i>Sampled:</i>   | 03.17.2020 13:06   | <i>Sampled:</i>   | 03.17.2020 13:18  | <i>Sampled:</i>   | 03.17.2020 13:19   |

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

Holly Taylor  
Project Manager



**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

# Certificate of Analysis Summary 656204

## Larson and Associates, Inc., Midland, TX

**Project Name:** Skeen 2H Pumping Unit

**Date Received in Lab:** Thu 03.19.2020 09:49  
**Report Date:** 03.26.2020 13:35  
**Project Manager:** Holly Taylor

| Analysis Requested                 | Lab Id:    | 656204-007       | 656204-008       | 656204-009       | 656204-010       | 656204-011       | 656204-012       |
|------------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | Field Id:  | S-7 (5')         | S-7 (7.5')       | S-9 (0.5')       | S-9 (1')         | S-10 (0.5')      | S-10 (1')        |
|                                    | Depth:     |                  |                  |                  |                  |                  |                  |
|                                    | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | Sampled:   | 03.17.2020 13:24 | 03.17.2020 13:25 | 03.17.2020 13:23 | 03.17.2020 12:28 | 03.17.2020 13:12 | 03.17.2020 13:16 |
| BTEX by EPA 8021B                  | Extracted: |                  |                  | 03.23.2020 16:00 | 03.23.2020 16:00 | 03.23.2020 16:00 | 03.25.2020 16:00 |
|                                    | Analyzed:  |                  |                  | 03.23.2020 22:49 | 03.23.2020 23:09 | 03.23.2020 23:30 | 03.25.2020 20:35 |
|                                    | Units/RL:  |                  |                  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00397         | <0.00398         | <0.00397         | <0.00401         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
|                                    |            |                  |                  | <0.00198         | <0.00199         | <0.00198         | <0.00200         |
| Chloride by EPA 300                | Extracted: | 03.20.2020 11:15 | 03.20.2020 11:15 | 03.20.2020 11:15 | 03.20.2020 11:15 | 03.20.2020 11:15 | 03.20.2020 11:15 |
|                                    | Analyzed:  | 03.20.2020 18:38 | 03.20.2020 18:44 | 03.20.2020 18:50 | 03.20.2020 18:57 | 03.20.2020 19:03 | 03.20.2020 19:09 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |            | <4.95            | <4.95            | <5.03            | <5.05            | 26.5             | 18.0             |
| TPH by SW8015 Mod                  | Extracted: |                  |                  | 03.20.2020 11:00 | 03.20.2020 11:00 | 03.20.2020 11:00 | 03.20.2020 11:00 |
|                                    | Analyzed:  |                  |                  | 03.20.2020 16:34 | 03.20.2020 16:55 | 03.20.2020 17:37 | 03.20.2020 17:58 |
|                                    | Units/RL:  |                  |                  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |            |                  |                  | <49.9            | <49.8            | <50.0            | <49.9            |
| Diesel Range Organics (DRO)        |            |                  |                  | <49.9            | <49.8            | <50.0            | <49.9            |
| Motor Oil Range Hydrocarbons (MRO) |            |                  |                  | <49.9            | <49.8            | <50.0            | <49.9            |
| Total TPH                          |            |                  |                  | <49.9            | <49.8            | <50.0            | <49.9            |



**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

# Certificate of Analysis Summary 656204

## Larson and Associates, Inc., Midland, TX

**Project Name:** Skeen 2H Pumping Unit

**Date Received in Lab:** Thu 03.19.2020 09:49  
**Report Date:** 03.26.2020 13:35  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 656204-013        | <i>Field Id:</i> | 656204-014         | <i>Depth:</i> | 656204-015         | <i>Matrix:</i> | 656204-016         | <i>Sampled:</i> | 656204-017        | <i>SOIL</i> | 656204-018         |
|------------------------------------|-------------------|-------------------|------------------|--------------------|---------------|--------------------|----------------|--------------------|-----------------|-------------------|-------------|--------------------|
|                                    |                   | S-4 (2')          |                  | S-4 (3')           |               | S-4 (5')           |                | S-4 (7.5')         |                 | S-6 (2')          |             | S-6 (4')           |
|                                    |                   | 03.17.2020 13:44  |                  | 03.17.2020 13:45   |               | 03.17.2020 14:01   |                | 03.17.2020 14:02   |                 | 03.17.2020 14:14  |             | 03.17.2020 14:15   |
|                                    |                   | 03.20.2020 11:15  |                  | 03.20.2020 11:15   |               | 03.20.2020 11:15   |                | 03.20.2020 11:15   |                 | 03.20.2020 11:15  |             | 03.20.2020 11:15   |
|                                    |                   | 03.20.2020 16:18  |                  | 03.20.2020 19:16   |               | 03.20.2020 16:50   |                | 03.20.2020 19:22   |                 | 03.20.2020 17:15  |             | 03.20.2020 17:21   |
| Chloride by EPA 300                | <i>Units/RL:</i>  | 114 mg/kg RL 25.1 |                  | 43.8 mg/kg RL 4.97 |               | 61.3 mg/kg RL 50.5 |                | 40.1 mg/kg RL 4.96 |                 | 387 mg/kg RL 50.0 |             | 98.3 mg/kg RL 50.3 |
| TPH by SW8015 Mod                  | <i>Extracted:</i> | 03.20.2020 11:00  |                  | 03.20.2020 11:00   |               | 03.20.2020 11:00   |                | 03.20.2020 11:00   |                 |                   |             |                    |
|                                    | <i>Analyzed:</i>  | 03.20.2020 18:19  |                  | 03.20.2020 18:39   |               | 03.20.2020 19:00   |                | 03.20.2020 19:21   |                 |                   |             |                    |
|                                    | <i>Units/RL:</i>  | mg/kg RL          |                  | mg/kg RL           |               | mg/kg RL           |                | mg/kg RL           |                 |                   |             |                    |
|                                    |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |
|                                    |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |
| Gasoline Range Hydrocarbons (GRO)  |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |
| Diesel Range Organics (DRO)        |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |
| Total TPH                          |                   | <49.9 49.9        |                  | <50.0 50.0         |               | <49.9 49.9         |                | <50.0 50.0         |                 |                   |             |                    |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 656204

## Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H Pumping Unit

Project Id: 20-0107-03  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu 03.19.2020 09:49  
Report Date: 03.26.2020 13:35  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 656204-019           | 656204-020           | 656204-021             | 656204-022             | 656204-023             | 656204-024             |
|------------------------------------|-------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|
|                                    | <i>Field Id:</i>  | S-6 (5')             | S-6 (8')             | S-2 (2')               | S-2 (3')               | S-2 (5')               | S-2 (8')               |
|                                    | <i>Depth:</i>     |                      |                      |                        |                        |                        |                        |
|                                    | <i>Matrix:</i>    | SOIL                 | SOIL                 | SOIL                   | SOIL                   | SOIL                   | SOIL                   |
|                                    | <i>Sampled:</i>   | 03.17.2020 14:17     | 03.17.2020 14:18     | 03.18.2020 10:02       | 03.18.2020 10:03       | 03.18.2020 10:06       | 03.18.2020 10:07       |
| Chloride by EPA 300                | <i>Extracted:</i> | 03.20.2020 11:15     | 03.20.2020 11:15     | 03.20.2020 11:15       | 03.20.2020 11:15       | 03.20.2020 11:15       | 03.20.2020 11:05       |
|                                    | <i>Analyzed:</i>  | 03.20.2020 17:28     | 03.20.2020 17:34     | 03.20.2020 17:40       | 03.20.2020 17:47       | 03.20.2020 17:53       | 03.20.2020 14:24       |
|                                    | <i>Units/RL:</i>  | mg/kg RL<br>307 49.5 | mg/kg RL<br>475 49.5 | mg/kg RL<br>591 49.5   | mg/kg RL<br>373 50.4   | mg/kg RL<br>344 49.9   | mg/kg RL<br>261 49.9   |
| TPH by SW8015 Mod                  | <i>Extracted:</i> |                      |                      | 03.20.2020 11:00       | 03.20.2020 11:00       | 03.20.2020 11:00       | 03.20.2020 11:00       |
|                                    | <i>Analyzed:</i>  |                      |                      | 03.20.2020 13:04       | 03.20.2020 14:07       | 03.20.2020 14:28       | 03.20.2020 14:49       |
|                                    | <i>Units/RL:</i>  |                      |                      | mg/kg RL<br><50.0 50.0 | mg/kg RL<br><49.9 49.9 | mg/kg RL<br><49.8 49.8 | mg/kg RL<br><50.0 50.0 |
| Gasoline Range Hydrocarbons (GRO)  |                   |                      |                      |                        | <49.9 49.9             | <49.8 49.8             | <50.0 50.0             |
| Diesel Range Organics (DRO)        |                   |                      |                      |                        | <49.9 49.9             | <49.8 49.8             | <50.0 50.0             |
| Motor Oil Range Hydrocarbons (MRO) |                   |                      |                      |                        | <49.9 49.9             | <49.8 49.8             | <50.0 50.0             |
| Total TPH                          |                   |                      |                      |                        | <49.9 49.9             | <49.8 49.8             | <50.0 50.0             |

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

Holly Taylor  
Project Manager



**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

# Certificate of Analysis Summary 656204

## Larson and Associates, Inc., Midland, TX

**Project Name:** Skeen 2H Pumping Unit

**Date Received in Lab:** Thu 03.19.2020 09:49  
**Report Date:** 03.26.2020 13:35  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 656204-025          | <i>Field Id:</i>  | 656204-026          | <i>Depth:</i>     | 656204-027          | <i>Matrix:</i>    | 656204-028          |
|------------------------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|
|                                    | <i>Sampled:</i>   | S-3 (2')            | <i>Sampled:</i>   | S-3 (5')            | <i>Sampled:</i>   | S-3 (8')            | <i>Sampled:</i>   | S-3 (10')           |
|                                    | <i>Sampled:</i>   | SOIL                | <i>Sampled:</i>   | SOIL                | <i>Sampled:</i>   | SOIL                | <i>Sampled:</i>   | SOIL                |
|                                    | <i>Sampled:</i>   | 03.18.2020 10:15    | <i>Sampled:</i>   | 03.18.2020 10:16    | <i>Sampled:</i>   | 03.18.2020 10:20    | <i>Sampled:</i>   | 03.18.2020 10:21    |
| Chloride by EPA 300                | <i>Extracted:</i> | 03.20.2020 17:00    | <i>Extracted:</i> | 03.20.2020 17:00    | <i>Extracted:</i> | 03.20.2020 17:00    | <i>Extracted:</i> | 03.20.2020 17:00    |
|                                    | <i>Analyzed:</i>  | 03.21.2020 01:26    | <i>Analyzed:</i>  | 03.21.2020 01:47    | <i>Analyzed:</i>  | 03.21.2020 01:54    | <i>Analyzed:</i>  | 03.21.2020 02:01    |
|                                    | <i>Units/RL:</i>  | mg/kg RL 323 4.98   | <i>Units/RL:</i>  | mg/kg RL 95.4 4.98  | <i>Units/RL:</i>  | mg/kg RL 19.6 5.02  | <i>Units/RL:</i>  | mg/kg RL 14.6 5.03  |
| TPH by SW8015 Mod                  | <i>Extracted:</i> | 03.20.2020 11:00    | <i>Extracted:</i> | 03.20.2020 11:00    | <i>Extracted:</i> | 03.20.2020 11:00    | <i>Extracted:</i> | 03.20.2020 11:00    |
|                                    | <i>Analyzed:</i>  | 03.20.2020 15:10    | <i>Analyzed:</i>  | 03.20.2020 15:31    | <i>Analyzed:</i>  | 03.20.2020 15:52    | <i>Analyzed:</i>  | 03.20.2020 16:13    |
|                                    | <i>Units/RL:</i>  | mg/kg RL <50.0 50.0 | <i>Units/RL:</i>  | mg/kg RL <49.9 49.9 | <i>Units/RL:</i>  | mg/kg RL <49.8 49.8 | <i>Units/RL:</i>  | mg/kg RL <49.8 49.8 |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.0 50.0          | <49.9 49.9        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          |
| Diesel Range Organics (DRO)        |                   | <50.0 50.0          | <49.9 49.9        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0          | <49.9 49.9        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          |
| Total TPH                          |                   | <50.0 50.0          | <49.9 49.9        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          | <49.8 49.8        | <49.8 49.8          |

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

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

Holly Taylor  
Project Manager



# Analytical Report 656204

for

**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Skeen 2H Pumping Unit**

**20-0107-03**

**03.26.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



03.26.2020

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: XENCO Report No(s): **656204**  
**Skeen 2H Pumping Unit**  
Project Address:

**Mark Larson :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 656204. 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. 656204 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

---

**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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





## Sample Cross Reference 656204

Larson and Associates, Inc., Midland, TX

Skeen 2H Pumping Unit

| Sample Id   | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-------------|--------|------------------|--------------|---------------|
| S-1 (2')    | S      | 03.17.2020 12:55 |              | 656204-001    |
| S-1 (3')    | S      | 03.17.2020 12:56 |              | 656204-002    |
| S-1 (5')    | S      | 03.17.2020 13:05 |              | 656204-003    |
| S-1 (10')   | S      | 03.17.2020 13:06 |              | 656204-004    |
| S-7 (2')    | S      | 03.17.2020 13:18 |              | 656204-005    |
| S-7 (3')    | S      | 03.17.2020 13:19 |              | 656204-006    |
| S-7 (5')    | S      | 03.17.2020 13:24 |              | 656204-007    |
| S-7 (7.5')  | S      | 03.17.2020 13:25 |              | 656204-008    |
| S-9 (0.5')  | S      | 03.17.2020 13:23 |              | 656204-009    |
| S-9 (1')    | S      | 03.17.2020 12:28 |              | 656204-010    |
| S-10 (0.5') | S      | 03.17.2020 13:12 |              | 656204-011    |
| S-10 (1')   | S      | 03.17.2020 13:16 |              | 656204-012    |
| S-4 (2')    | S      | 03.17.2020 13:44 |              | 656204-013    |
| S-4 (3')    | S      | 03.17.2020 13:45 |              | 656204-014    |
| S-4 (5')    | S      | 03.17.2020 14:01 |              | 656204-015    |
| S-4 (7.5')  | S      | 03.17.2020 14:02 |              | 656204-016    |
| S-6 (2')    | S      | 03.17.2020 14:14 |              | 656204-017    |
| S-6 (4')    | S      | 03.17.2020 14:15 |              | 656204-018    |
| S-6 (5')    | S      | 03.17.2020 14:17 |              | 656204-019    |
| S-6 (8')    | S      | 03.17.2020 14:18 |              | 656204-020    |
| S-2 (2')    | S      | 03.18.2020 10:02 |              | 656204-021    |
| S-2 (3')    | S      | 03.18.2020 10:03 |              | 656204-022    |
| S-2 (5')    | S      | 03.18.2020 10:06 |              | 656204-023    |
| S-2 (8')    | S      | 03.18.2020 10:07 |              | 656204-024    |
| S-3 (2')    | S      | 03.18.2020 10:15 |              | 656204-025    |
| S-3 (5')    | S      | 03.18.2020 10:16 |              | 656204-026    |
| S-3 (8')    | S      | 03.18.2020 10:20 |              | 656204-027    |
| S-3 (10')   | S      | 03.18.2020 10:21 |              | 656204-028    |



## CASE NARRATIVE

*Client Name: Larson and Associates, Inc.*

*Project Name: Skeen 2H Pumping Unit*

Project ID: 20-0107-03  
Work Order Number(s): 656204

Report Date: 03.26.2020  
Date Received: 03.19.2020

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### **Sample receipt non conformances and comments:**

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#### **Sample receipt non conformances and comments per sample:**

None

#### **Analytical non conformances and comments:**

Batch: LBA-3120695 BTEX by EPA 8021B

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

Batch: LBA-3120949 BTEX by EPA 8021B

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



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-1 (2')  
Lab Sample Id: 656204-001

Matrix: Soil  
Date Collected: 03.17.2020 12:55

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120518

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:05

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 123    | 49.7 | mg/kg | 03.20.2020 13:52 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 94         | %     | 70-135 | 03.20.2020 13:04 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 03.20.2020 13:04 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-1 (3')  
Lab Sample Id: 656204-002

Matrix: Soil  
Date Collected: 03.17.2020 12:56

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120611

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.23.2020 11:00

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 7.00   | 4.98 | mg/kg | 03.23.2020 14:32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 03.20.2020 14:07 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 03.20.2020 14:07 |      |
| o-Terphenyl    | 84-15-1    | 93         | %     | 70-135 | 03.20.2020 14:07 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-1 (5')  
Lab Sample Id: 656204-003

Matrix: Soil  
Date Collected: 03.17.2020 13:05

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120611

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.23.2020 11:00

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 5.88   | 4.99 | mg/kg | 03.23.2020 14:38 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 14:28 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 03.20.2020 14:28 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 03.20.2020 14:28 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-1 (10')  
Lab Sample Id: 656204-004

Matrix: Soil  
Date Collected: 03.17.2020 13:06

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120611

Prep Method: E300P

% Moisture:

Date Prep: 03.23.2020 11:00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 29.5   | 4.97 | mg/kg | 03.23.2020 14:44 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 14:49 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 03.20.2020 14:49 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 03.20.2020 14:49 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-7 (2')  
Lab Sample Id: 656204-005

Matrix: Soil  
Date Collected: 03.17.2020 13:18

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:05

Basis: Wet Weight

Seq Number: 3120518

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 478    | 50.5 | mg/kg | 03.20.2020 14:17 |      | 10  |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-7 (3')  
Lab Sample Id: 656204-006

Matrix: Soil  
Date Collected: 03.17.2020 13:19

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 61.6   | 49.7 | mg/kg | 03.20.2020 15:21 |      | 10  |





## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-7 (5')  
Lab Sample Id: 656204-007

Matrix: Soil  
Date Collected: 03.17.2020 13:24

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <4.95  | 4.95 | mg/kg | 03.20.2020 18:38 | U    | 1   |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-7 (7.5')  
Lab Sample Id: 656204-008

Matrix: Soil  
Date Collected: 03.17.2020 13:25

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <4.95  | 4.95 | mg/kg | 03.20.2020 18:44 | U    | 1   |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: **S-9 (0.5')**  
Lab Sample Id: 656204-009

Matrix: Soil  
Date Collected: 03.17.2020 13:23

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <5.03  | 5.03 | mg/kg | 03.20.2020 18:50 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 16:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 16:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 16:34 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 16:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 03.20.2020 16:34 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 03.20.2020 16:34 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: **S-9 (0.5')**  
Lab Sample Id: 656204-009

Matrix: Soil  
Date Collected: 03.17.2020 13:23

Date Received: 03.19.2020 09:49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.23.2020 16:00

Basis: Wet Weight

Seq Number: 3120695

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 03.23.2020 22:49     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 03.23.2020 22:49     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 112               | %            | 70-130        | 03.23.2020 22:49     |             |     |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-9 (1')  
Lab Sample Id: 656204-010

Matrix: Soil  
Date Collected: 03.17.2020 12:28

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <5.05  | 5.05 | mg/kg | 03.20.2020 18:57 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 03.20.2020 16:55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 03.20.2020 16:55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 03.20.2020 16:55 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 03.20.2020 16:55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 03.20.2020 16:55 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 03.20.2020 16:55 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-9 (1')  
Lab Sample Id: 656204-010

Matrix: Soil  
Date Collected: 03.17.2020 12:28

Date Received: 03.19.2020 09:49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.23.2020 16:00

Basis: Wet Weight

Seq Number: 3120695

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |
| Total BTEX    |             | <0.00199 | 0.00199 | mg/kg | 03.23.2020 23:09 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 115        | %     | 70-130 | 03.23.2020 23:09 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 112        | %     | 70-130 | 03.23.2020 23:09 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 03.19.2020 09:49

Lab Sample Id: 656204-011

Date Collected: 03.17.2020 13:12

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 26.5   | 5.05 | mg/kg | 03.20.2020 19:03 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

Seq Number: 3120516

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 17:37 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 17:37 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 17:37 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 17:37 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 03.20.2020 17:37 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 03.20.2020 17:37 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

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

Matrix: Soil

Date Received: 03.19.2020 09:49

Lab Sample Id: 656204-011

Date Collected: 03.17.2020 13:12

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.23.2020 16:00

Basis: Wet Weight

Seq Number: 3120695

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| Toluene       | 108-88-3    | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |
| Total BTEX    |             | <0.00198 | 0.00198 | mg/kg | 03.23.2020 23:30 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 110        | %     | 70-130 | 03.23.2020 23:30 |      |
| 4-Bromofluorobenzene | 460-00-4   | 111        | %     | 70-130 | 03.23.2020 23:30 |      |





## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-10 (1')  
Lab Sample Id: 656204-012

Matrix: Soil  
Date Collected: 03.17.2020 13:16

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 18.0   | 5.05 | mg/kg | 03.20.2020 19:09 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 17:58 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 17:58 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 17:58 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 17:58 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 03.20.2020 17:58 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 03.20.2020 17:58 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-10 (1')  
Lab Sample Id: 656204-012

Matrix: Soil  
Date Collected: 03.17.2020 13:16

Date Received: 03.19.2020 09:49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 03.25.2020 16:00

Basis: Wet Weight

Seq Number: 3120949

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 03.25.2020 20:35     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 107               | %            | 70-130        | 03.25.2020 20:35     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 112               | %            | 70-130        | 03.25.2020 20:35     |             |     |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-4 (2')  
Lab Sample Id: 656204-013

Matrix: Soil  
Date Collected: 03.17.2020 13:44

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 114    | 25.1 | mg/kg | 03.20.2020 16:18 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 18:19 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 18:19 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 18:19 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 18:19 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 94         | %     | 70-135 | 03.20.2020 18:19 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 03.20.2020 18:19 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-4 (3')  
Lab Sample Id: 656204-014

Matrix: Soil  
Date Collected: 03.17.2020 13:45

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 43.8   | 4.97 | mg/kg | 03.20.2020 19:16 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 18:39 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 18:39 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 18:39 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 18:39 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 03.20.2020 18:39 |      |
| o-Terphenyl    | 84-15-1    | 93         | %     | 70-135 | 03.20.2020 18:39 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-4 (5')  
Lab Sample Id: 656204-015

Matrix: Soil  
Date Collected: 03.17.2020 14:01

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 61.3   | 50.5 | mg/kg | 03.20.2020 16:50 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 19:00 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 19:00 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 19:00 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 19:00 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 95         | %     | 70-135 | 03.20.2020 19:00 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 03.20.2020 19:00 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-4 (7.5')  
Lab Sample Id: 656204-016

Matrix: Soil  
Date Collected: 03.17.2020 14:02

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 40.1   | 4.96 | mg/kg | 03.20.2020 19:22 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120516

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 19:21 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 19:21 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 19:21 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 19:21 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 03.20.2020 19:21 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 03.20.2020 19:21 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-6 (2')  
Lab Sample Id: 656204-017

Matrix: Soil  
Date Collected: 03.17.2020 14:14

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 387    | 50.0 | mg/kg | 03.20.2020 17:15 |      | 10  |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-6 (4')  
Lab Sample Id: 656204-018

Matrix: Soil  
Date Collected: 03.17.2020 14:15

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 98.3   | 50.3 | mg/kg | 03.20.2020 17:21 |      | 10  |





## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: **S-6 (5')**  
Lab Sample Id: 656204-019

Matrix: Soil  
Date Collected: 03.17.2020 14:17

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 307    | 49.5 | mg/kg | 03.20.2020 17:28 |      | 10  |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: **S-6 (8')**  
Lab Sample Id: 656204-020

Matrix: Soil  
Date Collected: 03.17.2020 14:18

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

Seq Number: 3120520

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 475    | 49.5 | mg/kg | 03.20.2020 17:34 |      | 10  |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-2 (2')  
Lab Sample Id: 656204-021

Matrix: Soil  
Date Collected: 03.18.2020 10:02

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 591    | 49.5 | mg/kg | 03.20.2020 17:40 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 13:04 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 78         | %     | 70-135 | 03.20.2020 13:04 |      |
| o-Terphenyl    | 84-15-1    | 83         | %     | 70-135 | 03.20.2020 13:04 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-2 (3')  
Lab Sample Id: 656204-022

Matrix: Soil  
Date Collected: 03.18.2020 10:03

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Date Prep: 03.20.2020 11:15

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 373    | 50.4 | mg/kg | 03.20.2020 17:47 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 14:07 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 14:07 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 95         | %     | 70-135 | 03.20.2020 14:07 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 03.20.2020 14:07 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-2 (5')  
Lab Sample Id: 656204-023

Matrix: Soil  
Date Collected: 03.18.2020 10:06

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120520

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:15

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 344    | 49.9 | mg/kg | 03.20.2020 17:53 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 03.20.2020 14:28 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 03.20.2020 14:28 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 03.20.2020 14:28 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 03.20.2020 14:28 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-2 (8')  
Lab Sample Id: 656204-024

Matrix: Soil  
Date Collected: 03.18.2020 10:07

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3120518

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:05

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 261    | 49.9 | mg/kg | 03.20.2020 14:24 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 03.20.2020 11:00

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 14:49 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 14:49 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 03.20.2020 14:49 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 03.20.2020 14:49 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-3 (2')  
Lab Sample Id: 656204-025

Matrix: Soil  
Date Collected: 03.18.2020 10:15

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120530

Prep Method: E300P

% Moisture:

Date Prep: 03.20.2020 17:00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 323    | 4.98 | mg/kg | 03.21.2020 01:26 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 03.20.2020 15:10 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 03.20.2020 15:10 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 03.20.2020 15:10 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 03.20.2020 15:10 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 03.20.2020 15:10 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 03.20.2020 15:10 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-3 (5')  
Lab Sample Id: 656204-026

Matrix: Soil  
Date Collected: 03.18.2020 10:16

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120530

Prep Method: E300P

% Moisture:

Date Prep: 03.20.2020 17:00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 95.4   | 4.98 | mg/kg | 03.21.2020 01:47 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 03.20.2020 15:31 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 03.20.2020 15:31 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 03.20.2020 15:31 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 03.20.2020 15:31 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 03.20.2020 15:31 |      |
| o-Terphenyl    | 84-15-1    | 94         | %     | 70-135 | 03.20.2020 15:31 |      |





## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: S-3 (8')  
Lab Sample Id: 656204-027

Matrix: Soil  
Date Collected: 03.18.2020 10:20

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120530

Prep Method: E300P

% Moisture:

Date Prep: 03.20.2020 17:00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 19.6   | 5.02 | mg/kg | 03.21.2020 01:54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 03.20.2020 15:52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 03.20.2020 15:52 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 03.20.2020 15:52 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 03.20.2020 15:52 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 03.20.2020 15:52 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 03.20.2020 15:52 |      |



## Certificate of Analytical Results 656204

### Larson and Associates, Inc., Midland, TX

#### Skeen 2H Pumping Unit

Sample Id: **S-3 (10')**  
Lab Sample Id: 656204-028

Matrix: Soil  
Date Collected: 03.18.2020 10:21

Date Received: 03.19.2020 09:49

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3120530

Prep Method: E300P

% Moisture:

Date Prep: 03.20.2020 17:00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 14.6   | 5.03 | mg/kg | 03.21.2020 02:01 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3120514

Prep Method: SW8015P

% Moisture:

Date Prep: 03.20.2020 11:00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 03.20.2020 16:13 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 03.20.2020 16:13 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 03.20.2020 16:13 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 03.20.2020 16:13 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 03.20.2020 16:13 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 03.20.2020 16:13 |      |



## Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



## QC Summary 656204

### Larson and Associates, Inc. Skeen 2H Pumping Unit

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120518

MB Sample Id: 7699379-1-BLK

Matrix: Solid

LCS Sample Id: 7699379-1-BKS

Prep Method: E300P

Date Prep: 03.20.2020

LCSD Sample Id: 7699379-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 250        | 100      | 249         | 100       | 90-110 | 0    | 20        | mg/kg | 03.20.2020 11:20 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120520

MB Sample Id: 7699381-1-BLK

Matrix: Solid

LCS Sample Id: 7699381-1-BKS

Prep Method: E300P

Date Prep: 03.20.2020

LCSD Sample Id: 7699381-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 250        | 100      | 250         | 100       | 90-110 | 0    | 20        | mg/kg | 03.20.2020 14:49 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120530

MB Sample Id: 7699443-1-BLK

Matrix: Solid

LCS Sample Id: 7699443-1-BKS

Prep Method: E300P

Date Prep: 03.20.2020

LCSD Sample Id: 7699443-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 258        | 103      | 257         | 103       | 90-110 | 0    | 20        | mg/kg | 03.20.2020 23:05 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120611

MB Sample Id: 7699487-1-BLK

Matrix: Solid

LCS Sample Id: 7699487-1-BKS

Prep Method: E300P

Date Prep: 03.23.2020

LCSD Sample Id: 7699487-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 253        | 101      | 255         | 102       | 90-110 | 1    | 20        | mg/kg | 03.23.2020 13:19 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120518

Parent Sample Id: 656195-004

Matrix: Soil

MS Sample Id: 656195-004 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656195-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 766           | 1260         | 2060      | 103     | 2060       | 103      | 90-110 | 0    | 20        | mg/kg | 03.20.2020 18:00 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120518

Parent Sample Id: 656199-004

Matrix: Soil

MS Sample Id: 656199-004 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656199-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 1770          | 1250         | 3090      | 106     | 3100       | 106      | 90-110 | 0    | 20        | mg/kg | 03.20.2020 18:12 |      |

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

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

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

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



## QC Summary 656204

### Larson and Associates, Inc. Skeen 2H Pumping Unit

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120520

Parent Sample Id: 656199-008

Matrix: Soil

MS Sample Id: 656199-008 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656199-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 58.9          | 249          | 303       | 98      | 305        | 99       | 90-110 | 1    | 20        | mg/kg | 03.20.2020 16:37 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120520

Parent Sample Id: 656251-002

Matrix: Soil

MS Sample Id: 656251-002 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656251-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 2.96          | 251          | 254       | 100     | 252        | 99       | 90-110 | 1    | 20        | mg/kg | 03.20.2020 15:08 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120530

Parent Sample Id: 656361-019

Matrix: Soil

MS Sample Id: 656361-019 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656361-019 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 194           | 250          | 449       | 102     | 435        | 96       | 90-110 | 3    | 20        | mg/kg | 03.20.2020 23:26 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120530

Parent Sample Id: 656361-028

Matrix: Soil

MS Sample Id: 656361-028 S

Prep Method: E300P

Date Prep: 03.20.2020

MSD Sample Id: 656361-028 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 95.9          | 248          | 353       | 104     | 325        | 92       | 90-110 | 8    | 20        | mg/kg | 03.21.2020 01:05 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120611

Parent Sample Id: 656464-002

Matrix: Soil

MS Sample Id: 656464-002 S

Prep Method: E300P

Date Prep: 03.23.2020

MSD Sample Id: 656464-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 22.8          | 249          | 280       | 103     | 280        | 103      | 90-110 | 0    | 20        | mg/kg | 03.23.2020 15:02 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3120611

Parent Sample Id: 656464-007

Matrix: Soil

MS Sample Id: 656464-007 S

Prep Method: E300P

Date Prep: 03.23.2020

MSD Sample Id: 656464-007 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 57.4          | 250          | 312       | 102     | 304        | 99       | 90-110 | 3    | 20        | mg/kg | 03.23.2020 13:37 |      |

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

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

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

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



## QC Summary 656204

### Larson and Associates, Inc. Skeen 2H Pumping Unit

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120514

MB Sample Id: 7699386-1-BLK

Matrix: Solid

LCS Sample Id: 7699386-1-BKS

Prep Method: SW8015P

Date Prep: 03.20.2020

LCSD Sample Id: 7699386-1-BSD

| Parameter                         | MB<br>Result | Spike<br>Amount | LCS<br>Result | LCS<br>%Rec | LCSD<br>Result | LCSD<br>%Rec | Limits | %RPD | RPD<br>Limit | Units | Analysis<br>Date | Flag |
|-----------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0        | 1000            | 840           | 84          | 822            | 82           | 70-135 | 2    | 20           | mg/kg | 03.20.2020 12:21 |      |
| Diesel Range Organics (DRO)       | <50.0        | 1000            | 864           | 86          | 862            | 86           | 70-135 | 0    | 20           | mg/kg | 03.20.2020 12:21 |      |

| Surrogate      | MB<br>%Rec | MB<br>Flag | LCS<br>%Rec | LCS<br>Flag | LCSD<br>%Rec | LCSD<br>Flag | Limits | Units | Analysis<br>Date |
|----------------|------------|------------|-------------|-------------|--------------|--------------|--------|-------|------------------|
| 1-Chlorooctane | 77         |            | 78          |             | 77           |              | 70-135 | %     | 03.20.2020 12:21 |
| o-Terphenyl    | 84         |            | 84          |             | 83           |              | 70-135 | %     | 03.20.2020 12:21 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120516

MB Sample Id: 7699382-1-BLK

Matrix: Solid

LCS Sample Id: 7699382-1-BKS

Prep Method: SW8015P

Date Prep: 03.20.2020

LCSD Sample Id: 7699382-1-BSD

| Parameter                         | MB<br>Result | Spike<br>Amount | LCS<br>Result | LCS<br>%Rec | LCSD<br>Result | LCSD<br>%Rec | Limits | %RPD | RPD<br>Limit | Units | Analysis<br>Date | Flag |
|-----------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0        | 1000            | 852           | 85          | 857            | 86           | 70-135 | 1    | 20           | mg/kg | 03.20.2020 12:21 |      |
| Diesel Range Organics (DRO)       | <50.0        | 1000            | 936           | 94          | 919            | 92           | 70-135 | 2    | 20           | mg/kg | 03.20.2020 12:21 |      |

| Surrogate      | MB<br>%Rec | MB<br>Flag | LCS<br>%Rec | LCS<br>Flag | LCSD<br>%Rec | LCSD<br>Flag | Limits | Units | Analysis<br>Date |
|----------------|------------|------------|-------------|-------------|--------------|--------------|--------|-------|------------------|
| 1-Chlorooctane | 89         |            | 89          |             | 89           |              | 70-135 | %     | 03.20.2020 12:21 |
| o-Terphenyl    | 101        |            | 98          |             | 97           |              | 70-135 | %     | 03.20.2020 12:21 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120514

Matrix: Solid

MB Sample Id: 7699386-1-BLK

Prep Method: SW8015P

Date Prep: 03.20.2020

| Parameter                          | MB<br>Result | Units | Analysis<br>Date | Flag |
|------------------------------------|--------------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0        | mg/kg | 03.20.2020 12:00 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120516

Matrix: Solid

MB Sample Id: 7699382-1-BLK

Prep Method: SW8015P

Date Prep: 03.20.2020

| Parameter                          | MB<br>Result | Units | Analysis<br>Date | Flag |
|------------------------------------|--------------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0        | mg/kg | 03.20.2020 12:00 |      |

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

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

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

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



## QC Summary 656204

### Larson and Associates, Inc. Skeen 2H Pumping Unit

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120514

Parent Sample Id: 656204-021

Matrix: Soil

MS Sample Id: 656204-021 S

Prep Method: SW8015P

Date Prep: 03.20.2020

MSD Sample Id: 656204-021 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.9         | 997          | 839       | 84      | 878        | 88       | 70-135 | 5    | 20        | mg/kg | 03.20.2020 13:25 |      |
| Diesel Range Organics (DRO)       | <49.9         | 997          | 890       | 89      | 953        | 95       | 70-135 | 7    | 20        | mg/kg | 03.20.2020 13:25 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 85      |         | 88       |          | 70-135 | %     | 03.20.2020 13:25 |
| o-Terphenyl    | 90      |         | 96       |          | 70-135 | %     | 03.20.2020 13:25 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3120516

Parent Sample Id: 656204-001

Matrix: Soil

MS Sample Id: 656204-001 S

Prep Method: SW8015P

Date Prep: 03.20.2020

MSD Sample Id: 656204-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.9         | 998          | 886       | 89      | 895        | 90       | 70-135 | 1    | 20        | mg/kg | 03.20.2020 13:25 |      |
| Diesel Range Organics (DRO)       | <49.9         | 998          | 965       | 97      | 974        | 98       | 70-135 | 1    | 20        | mg/kg | 03.20.2020 13:25 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 94      |         | 98       |          | 70-135 | %     | 03.20.2020 13:25 |
| o-Terphenyl    | 103     |         | 104      |          | 70-135 | %     | 03.20.2020 13:25 |

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

Seq Number: 3120695

MB Sample Id: 7699582-1-BLK

Matrix: Solid

LCS Sample Id: 7699582-1-BKS

Prep Method: SW5030B

Date Prep: 03.23.2020

LCSD Sample Id: 7699582-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.0976     | 98       | 0.0896      | 90        | 70-130 | 9    | 35        | mg/kg | 03.23.2020 18:25 |      |
| Toluene      | <0.00200  | 0.100        | 0.0978     | 98       | 0.0896      | 90        | 70-130 | 9    | 35        | mg/kg | 03.23.2020 18:25 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0997     | 100      | 0.0912      | 91        | 70-130 | 9    | 35        | mg/kg | 03.23.2020 18:25 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.198      | 99       | 0.181       | 91        | 70-130 | 9    | 35        | mg/kg | 03.23.2020 18:25 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.100      | 100      | 0.0921      | 92        | 70-130 | 8    | 35        | mg/kg | 03.23.2020 18:25 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 109     |         | 111      |          | 108       |           | 70-130 | %     | 03.23.2020 18:25 |
| 4-Bromofluorobenzene | 102     |         | 107      |          | 105       |           | 70-130 | %     | 03.23.2020 18:25 |

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

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

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

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



# QC Summary 656204

## Larson and Associates, Inc. Skeen 2H Pumping Unit

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

Seq Number: 3120949

MB Sample Id: 7699754-1-BLK

Matrix: Solid

LCS Sample Id: 7699754-1-BKS

Prep Method: SW5030B

Date Prep: 03.25.2020

LCSD Sample Id: 7699754-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.101      | 101      | 0.0942      | 94        | 70-130 | 7    | 35        | mg/kg | 03.25.2020 18:13 |      |
| Toluene      | <0.00200  | 0.100        | 0.0989     | 99       | 0.0924      | 92        | 70-130 | 7    | 35        | mg/kg | 03.25.2020 18:13 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0985     | 99       | 0.0920      | 92        | 70-130 | 7    | 35        | mg/kg | 03.25.2020 18:13 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.195      | 98       | 0.182       | 91        | 70-130 | 7    | 35        | mg/kg | 03.25.2020 18:13 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0977     | 98       | 0.0916      | 92        | 70-130 | 6    | 35        | mg/kg | 03.25.2020 18:13 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 107     |         | 111      |          | 108       |           | 70-130 | %     | 03.25.2020 18:13 |
| 4-Bromofluorobenzene | 93      |         | 98       |          | 95        |           | 70-130 | %     | 03.25.2020 18:13 |

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

Seq Number: 3120695

Parent Sample Id: 656199-003

Matrix: Soil

MS Sample Id: 656199-003 S

Prep Method: SW5030B

Date Prep: 03.23.2020

MSD Sample Id: 656199-003 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.000386     | 0.100        | 0.0868    | 87      | 0.0880     | 87       | 70-130 | 1    | 35        | mg/kg | 03.23.2020 19:06 |      |
| Toluene      | <0.00200      | 0.100        | 0.0859    | 86      | 0.0874     | 87       | 70-130 | 2    | 35        | mg/kg | 03.23.2020 19:06 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0854    | 85      | 0.0884     | 88       | 70-130 | 3    | 35        | mg/kg | 03.23.2020 19:06 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.169     | 85      | 0.175      | 87       | 70-130 | 3    | 35        | mg/kg | 03.23.2020 19:06 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0861    | 86      | 0.0892     | 88       | 70-130 | 4    | 35        | mg/kg | 03.23.2020 19:06 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 109     |         | 109      |          | 70-130 | %     | 03.23.2020 19:06 |
| 4-Bromofluorobenzene | 106     |         | 107      |          | 70-130 | %     | 03.23.2020 19:06 |

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

Seq Number: 3120949

Parent Sample Id: 656204-012

Matrix: Soil

MS Sample Id: 656204-012 S

Prep Method: SW5030B

Date Prep: 03.25.2020

MSD Sample Id: 656204-012 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.0911    | 91      | 0.0873     | 88       | 70-130 | 4    | 35        | mg/kg | 03.25.2020 18:54 |      |
| Toluene      | <0.00200      | 0.100        | 0.0889    | 89      | 0.0849     | 85       | 70-130 | 5    | 35        | mg/kg | 03.25.2020 18:54 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0868    | 87      | 0.0827     | 83       | 70-130 | 5    | 35        | mg/kg | 03.25.2020 18:54 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.172     | 86      | 0.164      | 82       | 70-130 | 5    | 35        | mg/kg | 03.25.2020 18:54 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0854    | 85      | 0.0818     | 82       | 70-130 | 4    | 35        | mg/kg | 03.25.2020 18:54 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 109     |         | 108      |          | 70-130 | %     | 03.25.2020 18:54 |
| 4-Bromofluorobenzene | 97      |         | 96       |          | 70-130 | %     | 03.25.2020 18:54 |

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

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

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

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



CHAIN-OF-CUSTODY

**Marson & Associates, Inc.**  
Environmental Consultants  
507 N. Marientfield, Ste. 200  
Midland, TX 79701  
432-687-0901

Data Reported to:

DATE: 3/19/2020 PAGE 1 OF 2  
PO#: \_\_\_\_\_ LAB WORK ORDER#: \_\_\_\_\_  
PROJECT LOCATION OR NAME: STEEN AT PUMPING UNIT  
LAI PROJECT #: 20-0103-03 COLLECTOR: DS/EC

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

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

| Field Sample I.D. | Lab # | Date | Time | Matrix | # of Containers | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> | ICE | UNPRESERVED | ANALYSES | FIELD NOTES |
|-------------------|-------|------|------|--------|-----------------|-----|------------------|---------------------------------------------------------------------------------------|-----|-------------|----------|-------------|
|-------------------|-------|------|------|--------|-----------------|-----|------------------|---------------------------------------------------------------------------------------|-----|-------------|----------|-------------|

|             |    |         |       |   |   |  |  |  |  |  |   |  |
|-------------|----|---------|-------|---|---|--|--|--|--|--|---|--|
| S-1 (2')    |    | 3/19/20 | 12:55 | S | 1 |  |  |  |  |  | X |  |
| S-1 (3')    |    |         | 13:00 |   |   |  |  |  |  |  | X |  |
| S-1 (5')    |    |         | 13:05 |   |   |  |  |  |  |  | X |  |
| S-1 (10')   |    |         | 13:06 |   |   |  |  |  |  |  | X |  |
| S-7 (2')    |    |         | 13:18 |   |   |  |  |  |  |  | X |  |
| S-7 (3')    |    |         | 13:19 |   |   |  |  |  |  |  | X |  |
| S-7 (5')    |    |         | 13:24 |   |   |  |  |  |  |  | X |  |
| S-7 (7.5')  |    |         | 13:25 |   |   |  |  |  |  |  | X |  |
| S-9 (0.5')  |    |         | 13:23 |   |   |  |  |  |  |  | X |  |
| S-9 (1')    |    |         | 13:28 |   |   |  |  |  |  |  | X |  |
| S-10 (0.5') |    |         | 13:18 |   |   |  |  |  |  |  | X |  |
| S-10 (1')   |    |         | 13:16 |   |   |  |  |  |  |  | X |  |
| S-4 (2')    |    |         | 13:44 |   |   |  |  |  |  |  | X |  |
| S-4 (3')    |    |         | 13:45 |   |   |  |  |  |  |  | X |  |
| S-4 (5')    |    |         | 14:01 |   |   |  |  |  |  |  | X |  |
| TOTAL       | 15 |         |       |   |   |  |  |  |  |  |   |  |

|                                                   |                                  |                                          |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------|----------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY: (Signature)<br><u>James Owen</u> | DATE/TIME<br><u>3-19-20/9:49</u> | RECEIVED BY: (Signature)<br><u>DS/EC</u> | TURN AROUND TIME<br>NORMAL <input checked="" type="checkbox"/><br>1 DAY <input type="checkbox"/><br>2 DAY <input type="checkbox"/><br>OTHER <input type="checkbox"/> | LABORATORY USE ONLY:<br>RECEIVING TEMP: <u>16/13</u> THERM#: <u>29</u><br>CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED<br><input type="checkbox"/> CARRIER BILL # _____<br><input type="checkbox"/> HAND DELIVERED |
| RELINQUISHED BY: (Signature)                      | DATE/TIME                        | RECEIVED BY: (Signature)                 |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                         |
| RELINQUISHED BY: (Signature)                      | DATE/TIME                        | RECEIVED BY: (Signature)                 |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                         |
| LABORATORY: <u>PERC</u>                           |                                  |                                          |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                         |

**Varson & Associates, Inc.**  
Environmental Consultants

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

DATE: 3/19/2020

PO#:

PROJECT LOCATION OR NAME:

LAB WORK ORDER#

PAGE 3 OF 3

Data Reported to:

LAI PROJECT #: 2D-0107-03

COLLECTOR: D5/EEC

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                            |      |                                                |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|------|------------------------------------------------|-----------------|
| TRRP report?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | S=SOIL<br>W=WATER<br>A=AIR |      | P=PAINT<br>SL=SLUDGE<br>OT=OTHER               |                 |
| TIME ZONE:<br>Time zone/State:<br><b>MST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                            |      |                                                |                 |
| Field<br>Sample I.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lab # | Date                       | Time | Matrix                                         | # of Containers |
| S-4 (7.5')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | 3/17/20                    | 1408 | S                                              | 1               |
| S-6 (3')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1414 |                                                |                 |
| S-6 (3')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1415 |                                                |                 |
| S-6 (5')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1417 |                                                |                 |
| S-6 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1418 |                                                |                 |
| S-2 (2')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 3/18/20                    | 1002 |                                                |                 |
| S-2 (3')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1003 |                                                |                 |
| S-2 (5')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1006 |                                                |                 |
| S-2 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1007 |                                                |                 |
| S-3 (2')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1015 |                                                |                 |
| S-3 (5')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1016 |                                                |                 |
| S-3 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                            | 1020 |                                                |                 |
| S-3 (10')                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                            | 1021 |                                                |                 |
| TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | 13                         |      |                                                |                 |
| RELINQUISHED BY: (Signature)<br><i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | DATE/TIME<br>3-19-20 9:49  |      | RECEIVED BY: (Signature)<br><i>[Signature]</i> |                 |
| RELINQUISHED BY: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | DATE/TIME                  |      | RECEIVED BY: (Signature)                       |                 |
| RELINQUISHED BY: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | DATE/TIME                  |      | RECEIVED BY: (Signature)                       |                 |
| LABORATORY: <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                            |      |                                                |                 |
| <b>TURN AROUND TIME</b><br>NORMAL <input checked="" type="checkbox"/><br>1 DAY <input type="checkbox"/><br>2 DAY <input type="checkbox"/><br>OTHER <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                            |      |                                                |                 |
| <b>LABORATORY USE ONLY:</b><br>RECEIVING TEMP: <i>CLC</i> THERM#: <i>129</i><br>CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED<br><input type="checkbox"/> CARRIER BILL #<br><input type="checkbox"/> HAND DELIVERED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                            |      |                                                |                 |
| <b>PRESERVATION</b><br>HCl<br>HNO <sub>3</sub><br>H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/><br>ICE<br>UNPRESERVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                            |      |                                                |                 |
| <b>ANALYSES</b><br>BTEX <input type="checkbox"/> MTBE <input type="checkbox"/><br>TRPH 418.1 <input type="checkbox"/> TPH 1005 <input checked="" type="checkbox"/> TPH 1006 <input type="checkbox"/><br>GASOLINE MOD 8015 <input checked="" type="checkbox"/><br>DIESEL - MOD 8015 <input checked="" type="checkbox"/><br>OIL - MOD 8015 <input checked="" type="checkbox"/><br>VOC 8260 <input checked="" type="checkbox"/><br>SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/><br>8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/><br>TCLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/><br>TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/><br>TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/><br>LEAD - TOTAL <input type="checkbox"/> D.W 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/><br>RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/><br>TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/><br>pH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/><br>EXPLOSIVES <input type="checkbox"/> PECTHLORATE <input type="checkbox"/><br>CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> |       |                            |      |                                                |                 |
| FIELD NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                            |      |                                                |                 |

**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**

**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 03.19.2020 09.49.00 AM

**Work Order #:** 656204

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R9

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

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

Analyst:

PH Device/Lot#:

**Checklist completed by:**



Brianna Teel

Date: 03.19.2020

**Checklist reviewed by:**



Holly Taylor

Date: 03.24.2020



**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

# Certificate of Analysis Summary 661563

## Larson and Associates, Inc., Midland, TX

**Project Name:** Skeen 2H,Chevron

**Date Received in Lab:** Thu 05.14.2020 10:44  
**Report Date:** 05.19.2020 14:02  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          |  | <i>Lab Id:<br/>Field Id:<br/>Depth:<br/>Matrix:<br/>Sampled:</i> | <i>661563-001<br/>SP-11 (0-0.5')<br/><br/>SOIL<br/>05.13.2020 11:40</i> | <i>661563-002<br/>SP-11 (0.5-1')<br/><br/>SOIL<br/>05.13.2020 11:43</i> |  |  |
|------------------------------------|--|------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|--|--|
| <b>BTEX by EPA 8021B</b>           |  | <i>Extracted:</i>                                                | 05.18.2020 17:00                                                        | 05.18.2020 17:00                                                        |  |  |
|                                    |  | <i>Analyzed:</i>                                                 | 05.18.2020 21:14                                                        | 05.18.2020 21:34                                                        |  |  |
|                                    |  | <i>Units/RL:</i>                                                 | mg/kg RL                                                                | mg/kg RL                                                                |  |  |
| Benzene                            |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| Toluene                            |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| Ethylbenzene                       |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| m,p-Xylenes                        |  |                                                                  | <0.00403 0.00403                                                        | <0.00399 0.00399                                                        |  |  |
| o-Xylene                           |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| Total Xylenes                      |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| Total BTEX                         |  |                                                                  | <0.00202 0.00202                                                        | <0.00200 0.00200                                                        |  |  |
| <b>Chloride by EPA 300</b>         |  | <i>Extracted:</i>                                                | 05.14.2020 15:05                                                        | 05.14.2020 15:05                                                        |  |  |
|                                    |  | <i>Analyzed:</i>                                                 | 05.15.2020 02:19                                                        | 05.15.2020 02:25                                                        |  |  |
|                                    |  | <i>Units/RL:</i>                                                 | mg/kg RL                                                                | mg/kg RL                                                                |  |  |
| Chloride                           |  |                                                                  | 102 50.0                                                                | 104 50.2                                                                |  |  |
| <b>TPH by SW8015 Mod</b>           |  | <i>Extracted:</i>                                                | 05.14.2020 17:00                                                        | 05.14.2020 17:00                                                        |  |  |
|                                    |  | <i>Analyzed:</i>                                                 | 05.15.2020 09:31                                                        | 05.15.2020 10:28                                                        |  |  |
|                                    |  | <i>Units/RL:</i>                                                 | mg/kg RL                                                                | mg/kg RL                                                                |  |  |
| Gasoline Range Hydrocarbons (GRO)  |  |                                                                  | <50.0 50.0                                                              | <50.0 50.0                                                              |  |  |
| Diesel Range Organics (DRO)        |  |                                                                  | <50.0 50.0                                                              | <50.0 50.0                                                              |  |  |
| Motor Oil Range Hydrocarbons (MRO) |  |                                                                  | <50.0 50.0                                                              | <50.0 50.0                                                              |  |  |
| Total TPH                          |  |                                                                  | <50.0 50.0                                                              | <50.0 50.0                                                              |  |  |

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

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

Holly Taylor  
Project Manager



# Analytical Report 661563

for

**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Skeen 2H,Chevron**

**20-0107-03**

**05.19.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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





05.19.2020

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: XENCO Report No(s): **661563**  
**Skeen 2H, Chevron**  
Project Address:

**Mark Larson :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661563. 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. 661563 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

---

**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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



## Sample Cross Reference 661563

**Larson and Associates, Inc., Midland, TX**

Skeen 2H,Chevron

| Sample Id      | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|----------------|--------|------------------|--------------|---------------|
| SP-11 (0-0.5') | S      | 05.13.2020 11:40 |              | 661563-001    |
| SP-11 (0.5-1') | S      | 05.13.2020 11:43 |              | 661563-002    |



## CASE NARRATIVE

*Client Name: Larson and Associates, Inc.*

*Project Name: Skeen 2H, Chevron*

Project ID: 20-0107-03  
Work Order Number(s): 661563

Report Date: 05.19.2020  
Date Received: 05.14.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None





## Certificate of Analytical Results 661563

### Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id: **SP-11 (0-0.5')**

Matrix: Soil

Date Received:05.14.2020 10:44

Lab Sample Id: 661563-001

Date Collected: 05.13.2020 11:40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.2020 15:05

Basis: Wet Weight

Seq Number: 3126007

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 102    | 50.0 | mg/kg | 05.15.2020 02:19 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.14.2020 17:00

Basis: Wet Weight

Seq Number: 3126160

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 05.15.2020 09:31 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 05.15.2020 09:31 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 05.15.2020 09:31 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 05.15.2020 09:31 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-130 | 05.15.2020 09:31 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-130 | 05.15.2020 09:31 |      |



## Certificate of Analytical Results 661563

### Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id: **SP-11 (0-0.5')**

Matrix: Soil

Date Received:05.14.2020 10:44

Lab Sample Id: 661563-001

Date Collected: 05.13.2020 11:40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.18.2020 17:00

Basis: Wet Weight

Seq Number: 3126326

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 05.18.2020 21:14     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 111               | %            | 70-130        | 05.18.2020 21:14     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 115               | %            | 70-130        | 05.18.2020 21:14     |             |     |



## Certificate of Analytical Results 661563

### Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id: **SP-11 (0.5-1')**

Matrix: Soil

Date Received: 05.14.2020 10:44

Lab Sample Id: 661563-002

Date Collected: 05.13.2020 11:43

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 05.14.2020 15:05

Basis: Wet Weight

Seq Number: 3126007

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 104    | 50.2 | mg/kg | 05.15.2020 02:25 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 05.14.2020 17:00

Basis: Wet Weight

Seq Number: 3126160

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 05.15.2020 10:28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 05.15.2020 10:28 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 05.15.2020 10:28 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 05.15.2020 10:28 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 101        | %     | 70-130 | 05.15.2020 10:28 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-130 | 05.15.2020 10:28 |      |



## Certificate of Analytical Results 661563

### Larson and Associates, Inc., Midland, TX

Skeen 2H,Chevron

Sample Id: **SP-11 (0.5-1')**

Matrix: Soil

Date Received:05.14.2020 10:44

Lab Sample Id: 661563-002

Date Collected: 05.13.2020 11:43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.18.2020 17:00

Basis: Wet Weight

Seq Number: 3126326

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 05.18.2020 21:34     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 110               | %            | 70-130        | 05.18.2020 21:34     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 114               | %            | 70-130        | 05.18.2020 21:34     |             |     |



## Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



## QC Summary 661563

### Larson and Associates, Inc.

Skeen 2H,Chevron

**Analytical Method: Chloride by EPA 300**

Seq Number: 3126007

MB Sample Id: 7703342-1-BLK

Matrix: Solid

LCS Sample Id: 7703342-1-BKS

Prep Method: E300P

Date Prep: 05.14.2020

LCSD Sample Id: 7703342-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 243        | 97       | 236         | 94        | 90-110 | 3    | 20        | mg/kg | 05.14.2020 23:35 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3126007

Parent Sample Id: 661555-004

Matrix: Soil

MS Sample Id: 661555-004 S

Prep Method: E300P

Date Prep: 05.14.2020

MSD Sample Id: 661555-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 58.4          | 252          | 298       | 95      | 292        | 93       | 90-110 | 2    | 20        | mg/kg | 05.14.2020 23:52 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3126007

Parent Sample Id: 661555-011

Matrix: Soil

MS Sample Id: 661555-011 S

Prep Method: E300P

Date Prep: 05.14.2020

MSD Sample Id: 661555-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 174           | 249          | 425       | 101     | 426        | 101      | 90-110 | 0    | 20        | mg/kg | 05.15.2020 01:16 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3126160

MB Sample Id: 7703367-1-BLK

Matrix: Solid

LCS Sample Id: 7703367-1-BKS

Prep Method: SW8015P

Date Prep: 05.14.2020

LCSD Sample Id: 7703367-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 934        | 93       | 928         | 93        | 70-130 | 1    | 20        | mg/kg | 05.15.2020 08:53 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 897        | 90       | 897         | 90        | 70-130 | 0    | 20        | mg/kg | 05.15.2020 08:53 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 101     |         | 117      |          | 117       |           | 70-130 | %     | 05.15.2020 08:53 |
| o-Terphenyl    | 107     |         | 111      |          | 112       |           | 70-130 | %     | 05.15.2020 08:53 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3126160

Matrix: Solid

MB Sample Id: 7703367-1-BLK

Prep Method: SW8015P

Date Prep: 05.14.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 05.15.2020 08:34 |      |

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

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

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

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



## QC Summary 661563

### Larson and Associates, Inc.

Skeen 2H,Chevron

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3126160

Parent Sample Id: 661563-001

Matrix: Soil

MS Sample Id: 661563-001 S

Prep Method: SW8015P

Date Prep: 05.14.2020

MSD Sample Id: 661563-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.8         | 996          | 923       | 93      | 933        | 94       | 70-130 | 1    | 20        | mg/kg | 05.15.2020 09:50 |      |
| Diesel Range Organics (DRO)       | <49.8         | 996          | 903       | 91      | 913        | 92       | 70-130 | 1    | 20        | mg/kg | 05.15.2020 09:50 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 115     |         | 119      |          | 70-130 | %     | 05.15.2020 09:50 |
| o-Terphenyl    | 108     |         | 108      |          | 70-130 | %     | 05.15.2020 09:50 |

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

Seq Number: 3126326

MB Sample Id: 7703598-1-BLK

Matrix: Solid

LCS Sample Id: 7703598-1-BKS

Prep Method: SW5035A

Date Prep: 05.18.2020

LCSD Sample Id: 7703598-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.102      | 102      | 0.0982      | 98        | 70-130 | 4    | 35        | mg/kg | 05.18.2020 17:15 |      |
| Toluene      | <0.00200  | 0.100        | 0.110      | 110      | 0.104       | 104       | 70-130 | 6    | 35        | mg/kg | 05.18.2020 17:15 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.105      | 105      | 0.0985      | 99        | 70-130 | 6    | 35        | mg/kg | 05.18.2020 17:15 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.210      | 105      | 0.197       | 99        | 70-130 | 6    | 35        | mg/kg | 05.18.2020 17:15 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.101      | 101      | 0.0943      | 94        | 70-130 | 7    | 35        | mg/kg | 05.18.2020 17:15 |      |

**Surrogate**

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 104     |         | 104      |          | 104       |           | 70-130 | %     | 05.18.2020 17:15 |
| 4-Bromofluorobenzene | 90      |         | 101      |          | 100       |           | 70-130 | %     | 05.18.2020 17:15 |

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

Seq Number: 3126326

Parent Sample Id: 661896-001

Matrix: Soil

MS Sample Id: 661896-001 S

Prep Method: SW5035A

Date Prep: 05.18.2020

MSD Sample Id: 661896-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00199      | 0.0996       | 0.0910    | 91      | 0.100      | 100      | 70-130 | 9    | 35        | mg/kg | 05.18.2020 18:08 |      |
| Toluene      | <0.00199      | 0.0996       | 0.0856    | 86      | 0.0978     | 98       | 70-130 | 13   | 35        | mg/kg | 05.18.2020 18:08 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.0700    | 70      | 0.0860     | 86       | 70-130 | 21   | 35        | mg/kg | 05.18.2020 18:08 |      |
| m,p-Xylenes  | <0.00398      | 0.199        | 0.141     | 71      | 0.173      | 87       | 70-130 | 20   | 35        | mg/kg | 05.18.2020 18:08 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.0668    | 67      | 0.0828     | 83       | 70-130 | 21   | 35        | mg/kg | 05.18.2020 18:08 | X    |

**Surrogate**

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 107     |         | 108      |          | 70-130 | %     | 05.18.2020 18:08 |
| 4-Bromofluorobenzene | 99      |         | 94       |          | 70-130 | %     | 05.18.2020 18:08 |

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

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

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

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

**Aarson & Associates, Inc.**  
Environmental Consultants

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

Data Reported to:

DATE: 5/14/20 PAGE 1 OF 1  
PO#: 661543  
PROJECT LOCATION OR NAME: Skeneath, Chevron  
LAB PROJECT #: 20-0107-03 COLLECTOR: R0

TRRP report?  
☐ Yes ☒ No

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

TIME ZONE:  
Time zone/State:  
**MS T**

Field  
Sample I.D.

Lab #

Date

Time

Matrix

# of Containers

HCl

HNO<sub>3</sub>

H<sub>2</sub>SO<sub>4</sub> ☐ NaOH ☐

ICE

UNPRESSERVED

PRESERVATION

**ANALYSES**

BTEX ☒ MTBE ☐

TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☒

DIESEL - MOD 8015 ☒

OIL - MOD 8015 ☒

VOC 8260 ☒

SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐

8081 PESTICIDES ☐ 8151 HERBICIDES ☐

8082 PCBs ☐

TBLP - METALS (RCRA) ☐ TCLP VOC ☐

TCLP - PEST ☐ HERB ☐ Semi-VOC ☐

TOTAL METALS (RCRA) ☐ OTHER LIST ☐

LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐

RQI ☐ TOX ☐ FLASHPOINT ☐

TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

pH ☐ HEXAVALENT CHROMIUM ☐

EXPLOSIVES ☐ PECHLORATE ☐

CHLORIDE ANIONS ☐ ALKALINITY ☐

**MS 500**

FIELD NOTES

SP-11 (0-0.5')  
SP-11 (0.5-1')

5/13/20 11:40  
5/13/20 11:43

S S

1 1

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

TOTAL 2

RELINQUISHED BY: (Signature)  
Richard Dusen

DATE/TIME  
5-14-20 / 1644

RECEIVED BY: (Signature)  
Richard Dusen

TURN AROUND TIME  
NORMAL ☒

LABORATORY USE ONLY:  
RECEIVING TEMP: 30/35

THERM#: 19

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY: Xenoco

1 DAY ☐

2 DAY ☐

OTHER ☐

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

HAND DELIVERED



# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 05.14.2020 10.44.00 AM

**Work Order #:** 661563

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** R9

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 3.3      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A      |
| #5 Custody Seals intact on sample bottles?              | N/A      |
| #6 *Custody Seals Signed and dated?                     | N/A      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | N/A      |
| #18 Water VOC samples have zero headspace?              | N/A      |

BTEX was in bulk container

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

Analyst:

PH Device/Lot#:

**Checklist completed by:**



Brianna Teel

Date: 05.14.2020

**Checklist reviewed by:**



Holly Taylor

Date: 05.18.2020

# Certificate of Analysis Summary 678851

## Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst Soil Pile- Skeen Back Fill

**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

**Date Received in Lab:** Mon 11.23.2020 16:36  
**Report Date:** 11.30.2020 14:06  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          |  | <i>Lab Id:</i>    | 678851-001         |  |  |  |  |
|------------------------------------|--|-------------------|--------------------|--|--|--|--|
|                                    |  | <i>Field Id:</i>  | C-1                |  |  |  |  |
|                                    |  | <i>Depth:</i>     |                    |  |  |  |  |
|                                    |  | <i>Matrix:</i>    | SOIL               |  |  |  |  |
|                                    |  | <i>Sampled:</i>   | 11.23.2020 09:30   |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           |  | <i>Extracted:</i> | 11.24.2020 15:36   |  |  |  |  |
|                                    |  | <i>Analyzed:</i>  | 11.24.2020 22:35   |  |  |  |  |
|                                    |  | <i>Units/RL:</i>  | 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                      |  |                   | <0.002000 0.002000 |  |  |  |  |
| Total BTEX                         |  |                   | <0.002000 0.002000 |  |  |  |  |
| <b>Chloride by EPA 300</b>         |  | <i>Extracted:</i> | 11.24.2020 14:00   |  |  |  |  |
|                                    |  | <i>Analyzed:</i>  | 11.24.2020 18:54   |  |  |  |  |
|                                    |  | <i>Units/RL:</i>  | mg/kg RL           |  |  |  |  |
| Chloride                           |  |                   | <49.9 49.9         |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           |  | <i>Extracted:</i> | 11.24.2020 12:30   |  |  |  |  |
|                                    |  | <i>Analyzed:</i>  | 11.24.2020 14:46   |  |  |  |  |
|                                    |  | <i>Units/RL:</i>  | mg/kg RL           |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |  |                   | <50.1 50.1         |  |  |  |  |
| Diesel Range Organics (DRO)        |  |                   | <50.1 50.1         |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |  |                   | <50.1 50.1         |  |  |  |  |
| Total TPH                          |  |                   | <50.10 50.10       |  |  |  |  |

BRL - Below Reporting Limit

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



# **Analytical Report 678851**

**for**

**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Hayhurst Soil Pile- Skeen Back Fill**

**20-0107-03**

**11.30.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)

11.30.2020

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **678851**  
**Hayhurst Soil Pile- Skeen Back Fill**  
Project Address:

**Mark Larson :**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678851. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678851 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



---

**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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

## Sample Cross Reference 678851

### Larson and Associates, Inc., Midland, TX

Hayhurst Soil Pile- Skeen Back Fill

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| C-1       | S      | 11.23.2020 09:30 |              | 678851-001    |

## CASE NARRATIVE

***Client Name: Larson and Associates, Inc.***

***Project Name: Hayhurst Soil Pile- Skeen Back Fill***

Project ID: 20-0107-03  
Work Order Number(s): 678851

Report Date: 11.30.2020  
Date Received: 11.23.2020

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None

# Certificate of Analytical Results 678851

## Larson and Associates, Inc., Midland, TX

### Hayhurst Soil Pile- Skeen Back Fill

Sample Id: **C-1** Matrix: Soil Date Received: 11.23.2020 16:36  
 Lab Sample Id: 678851-001 Date Collected: 11.23.2020 09:30  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.24.2020 14:00 % Moisture:  
 Seq Number: 3143277 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | <49.9  | 49.9 | mg/kg | 11.24.2020 18:54 | U    | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.24.2020 12:30 % Moisture:  
 Seq Number: 3143273 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.24.2020 14:46 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.24.2020 14:46 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.24.2020 14:46 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.24.2020 14:46 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 11.24.2020 14:46 |      |
| o-Terphenyl    | 84-15-1    | 121        | %     | 70-135 | 11.24.2020 14:46 |      |

# Certificate of Analytical Results 678851

## Larson and Associates, Inc., Midland, TX

### Hayhurst Soil Pile- Skeen Back Fill

Sample Id: **C-1**  
 Lab Sample Id: 678851-001

Matrix: Soil  
 Date Collected: 11.23.2020 09:30

Date Received: 11.23.2020 16:36

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.24.2020 15:36

% Moisture:  
 Basis: Wet Weight

Seq Number: 3143258

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 11.24.2020 22:35     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 122               | %            | 70-130        | 11.24.2020 22:35     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 11.24.2020 22:35     |             |     |



# Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Larson and Associates, Inc.  
Hayhurst Soil Pile- Skeen Back Fill

Analytical Method: Chloride by EPA 300

Seq Number: 3143277

MB Sample Id: 7715945-1-BLK

Matrix: Solid

LCS Sample Id: 7715945-1-BKS

Prep Method: E300P

Date Prep: 11.24.2020

LCSD Sample Id: 7715945-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 240        | 96       | 238         | 95        | 90-110 | 1    | 20        | mg/kg | 11.24.2020 15:42 |      |

Analytical Method: Chloride by EPA 300

Seq Number: 3143277

Parent Sample Id: 678846-001

Matrix: Soil

MS Sample Id: 678846-001 S

Prep Method: E300P

Date Prep: 11.24.2020

MSD Sample Id: 678846-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 2690          | 200          | 2870      | 90      | 2890       | 101      | 90-110 | 1    | 20        | mg/kg | 11.24.2020 16:45 |      |

Analytical Method: Chloride by EPA 300

Seq Number: 3143277

Parent Sample Id: 678848-005

Matrix: Soil

MS Sample Id: 678848-005 S

Prep Method: E300P

Date Prep: 11.24.2020

MSD Sample Id: 678848-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 23.8          | 201          | 219       | 97      | 220        | 97       | 90-110 | 0    | 20        | mg/kg | 11.24.2020 17:57 |      |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143273

MB Sample Id: 7715953-1-BLK

Matrix: Solid

LCS Sample Id: 7715953-1-BKS

Prep Method: SW8015P

Date Prep: 11.24.2020

LCSD Sample Id: 7715953-1-BSD

| Parameter                         | MB<br>Result | Spike<br>Amount | LCS<br>Result | LCS<br>%Rec | LCSD<br>Result | LCSD<br>%Rec | Limits | %RPD | RPD<br>Limit | Units | Analysis<br>Date | Flag |
|-----------------------------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0        | 1000            | 1030          | 103         | 1010           | 101          | 70-135 | 2    | 35           | mg/kg | 11.24.2020 14:06 |      |
| Diesel Range Organics (DRO)       | <50.0        | 1000            | 1040          | 104         | 1140           | 114          | 70-135 | 9    | 35           | mg/kg | 11.24.2020 14:06 |      |
| Surrogate                         | MB<br>%Rec   | MB<br>Flag      | LCS<br>%Rec   | LCS<br>Flag | LCSD<br>%Rec   | LCSD<br>Flag | Limits |      |              | Units | Analysis<br>Date |      |
| 1-Chlorooctane                    | 114          |                 | 107           |             | 114            |              | 70-135 |      |              | %     | 11.24.2020 14:06 |      |
| o-Terphenyl                       | 111          |                 | 105           |             | 100            |              | 70-135 |      |              | %     | 11.24.2020 14:06 |      |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3143273

Matrix: Solid

MB Sample Id: 7715953-1-BLK

Prep Method: SW8015P

Date Prep: 11.24.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 11.24.2020 13:46 |      |

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

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

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

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

## Larson and Associates, Inc. Hayhurst Soil Pile- Skeen Back Fill

### Analytical Method: TPH by SW8015 Mod

Seq Number: 3143273

Parent Sample Id: 678851-001

Matrix: Soil

MS Sample Id: 678851-001 S

Prep Method: SW8015P

Date Prep: 11.24.2020

MSD Sample Id: 678851-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.8         | 995          | 1150      | 116     | 1010       | 101      | 70-135 | 13   | 35        | mg/kg | 11.24.2020 15:06 |      |
| Diesel Range Organics (DRO)       | <49.8         | 995          | 1090      | 110     | 1130       | 113      | 70-135 | 4    | 35        | mg/kg | 11.24.2020 15:06 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 111     |         | 115      |          | 70-135 | %     | 11.24.2020 15:06 |
| o-Terphenyl    | 107     |         | 104      |          | 70-135 | %     | 11.24.2020 15:06 |

### Analytical Method: BTEX by EPA 8021B

Seq Number: 3143258

MB Sample Id: 7715911-1-BLK

Matrix: Solid

LCS Sample Id: 7715911-1-BKS

Prep Method: SW5035A

Date Prep: 11.24.2020

LCSD Sample Id: 7715911-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.107      | 107      | 0.104       | 104       | 70-130 | 3    | 35        | mg/kg | 11.24.2020 10:40 |      |
| Toluene      | <0.00200  | 0.100        | 0.0982     | 98       | 0.0974      | 97        | 70-130 | 1    | 35        | mg/kg | 11.24.2020 10:40 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.101      | 101      | 0.101       | 101       | 71-129 | 0    | 35        | mg/kg | 11.24.2020 10:40 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.208      | 104      | 0.205       | 103       | 70-135 | 1    | 35        | mg/kg | 11.24.2020 10:40 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.102      | 102      | 0.101       | 101       | 71-133 | 1    | 35        | mg/kg | 11.24.2020 10:40 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 106     |         | 102      |          | 100       |           | 70-130 | %     | 11.24.2020 10:40 |
| 4-Bromofluorobenzene | 121     |         | 110      |          | 108       |           | 70-130 | %     | 11.24.2020 10:40 |

### Analytical Method: BTEX by EPA 8021B

Seq Number: 3143258

Parent Sample Id: 678846-001

Matrix: Soil

MS Sample Id: 678846-001 S

Prep Method: SW5035A

Date Prep: 11.24.2020

MSD Sample Id: 678846-001 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      | 0.100        | 0.107     | 107     | 0.0881     | 88       | 70-130 | 19   | 35        | mg/kg | 11.24.2020 13:34 |      |
| Toluene      | <0.00200      | 0.100        | 0.0960    | 96      | 0.0781     | 78       | 70-130 | 21   | 35        | mg/kg | 11.24.2020 13:34 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0934    | 93      | 0.0728     | 73       | 71-129 | 25   | 35        | mg/kg | 11.24.2020 13:34 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.192     | 96      | 0.144      | 72       | 70-135 | 29   | 35        | mg/kg | 11.24.2020 13:34 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0928    | 93      | 0.0711     | 71       | 71-133 | 26   | 35        | mg/kg | 11.24.2020 13:34 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 97      |         | 101      |          | 70-130 | %     | 11.24.2020 13:34 |
| 4-Bromofluorobenzene | 105     |         | 112      |          | 70-130 | %     | 11.24.2020 13:34 |

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

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

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

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



No 1426

## CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 11/23/20 PAGE 1 OF 1  
PO#: \_\_\_\_\_ LAB WORK ORDER#: \_\_\_\_\_  
PROJECT LOCATION OR NAME: Hayhurst soil pipe - Street  
LA PROJECT #: 20-0107-03 COLLECTOR: TJ 711

[illegible]

|                                                       |                                   |                                                      |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------|-----------------------------------|------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY: (Signature)<br><i>Robert Jackson</i> | DATE/TIME<br><i>11/23/20 1636</i> | RECEIVED BY: (Signature)<br><i>Clare [illegible]</i> | 11-23-20 1636 | TURN AROUND TIME<br>NORMAL <input checked="" type="checkbox"/><br>1 DAY <input type="checkbox"/><br>2 DAY <input type="checkbox"/><br>OTHER <input type="checkbox"/> | LABORATORY USE ONLY:<br>RECEIVING TEMP: <i>1.6/1.4</i> THERM#: <i>TM 007</i><br>CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED<br><input type="checkbox"/> CARRIER BILL # _____<br><input type="checkbox"/> HAND DELIVERED |
| RELINQUISHED BY: (Signature)                          | DATE/TIME                         | RECEIVED BY: (Signature)                             |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                               |
| RELINQUISHED BY: (Signature)                          | DATE/TIME                         | RECEIVED BY: (Signature)                             |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                               |
| LABORATORY: <i>Xenlo</i>                              |                                   |                                                      |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                               |

**Eurofins Xenco, LLC**  
**Prelogin/Nonconformance Report- Sample Log-In**

**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 11.23.2020 04.36.00 PM

**Work Order #:** 678851

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** T\_NM\_007

| Sample Receipt Checklist                                |     | Comments                             |
|---------------------------------------------------------|-----|--------------------------------------|
| #1 *Temperature of cooler(s)?                           | 1.4 |                                      |
| #2 *Shipping container in good condition?               | Yes |                                      |
| #3 *Samples received on ice?                            | Yes |                                      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |                                      |
| #5 Custody Seals intact on sample bottles?              | Yes |                                      |
| #6 *Custody Seals Signed and dated?                     | Yes |                                      |
| #7 *Chain of Custody present?                           | Yes |                                      |
| #8 Any missing/extra samples?                           | No  |                                      |
| #9 Chain of Custody signed when relinquished/ received? | Yes |                                      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes |                                      |
| #11 Container label(s) legible and intact?              | Yes |                                      |
| #12 Samples in proper container/ bottle?                | Yes | Samples received in bulk containers. |
| #13 Samples properly preserved?                         | Yes |                                      |
| #14 Sample container(s) intact?                         | Yes |                                      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes |                                      |
| #16 All samples received within hold time?              | Yes |                                      |
| #17 Subcontract of sample(s)?                           | No  |                                      |
| #18 Water VOC samples have zero headspace?              | N/A |                                      |

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

Analyst:

PH Device/Lot#:

|                                |                                                                                                     |                  |
|--------------------------------|-----------------------------------------------------------------------------------------------------|------------------|
| <b>Checklist completed by:</b> | <br>Cloe Clifton | Date: 11.23.2020 |
| <b>Checklist reviewed by:</b>  | <br>Holly Taylor | Date: 11.23.2020 |

# Certificate of Analysis Summary 678962

## Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

**Date Received in Lab:** Tue 11.24.2020 15:31  
**Report Date:** 12.18.2020 14:55  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>  | <i>Lab Id:</i>                     | <i>Field Id:</i> | <i>Depth:</i>    | <i>Matrix:</i>   | <i>Sampled:</i>  | 678962-001       | 678962-002       | 678962-003       | 678962-004       | 678962-005       | 678962-006       |
|----------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                            | <i>SW-N</i>                        | <i>SW-E</i>      | <i>SW-S</i>      | <i>SW-W</i>      | <i>SOIL</i>      | <i>SOIL</i>      | <i>SOIL</i>      | <i>SOIL</i>      | <i>SOIL</i>      | <i>SOIL</i>      | <i>SOIL</i>      |
| <b>BTEX by EPA 8021B</b>   |                                    |                  |                  |                  |                  | 11.24.2020 10:40 | 11.24.2020 10:42 | 11.24.2020 10:44 | 11.24.2020 10:46 | 11.24.2020 10:48 | 11.24.2020 10:50 |
|                            | <i>Extracted:</i>                  | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 | 12.02.2020 08:00 |
|                            | <i>Analyzed:</i>                   | 12.02.2020 13:35 | 12.02.2020 13:55 | 12.02.2020 14:16 | 12.02.2020 14:36 | 12.02.2020 14:57 | 12.02.2020 15:18 | 12.02.2020 15:39 | 12.02.2020 15:59 | 12.02.2020 16:19 | 12.02.2020 16:39 |
|                            | <i>Units/RL:</i>                   | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            |
|                            | Benzene                            | <0.00200         | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          |
|                            | Toluene                            | <0.00200         | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          |
| <b>Chloride by EPA 300</b> | Ethylbenzene                       | <0.00200         | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          |
|                            | m,p-Xylenes                        | <0.00400         | 0.00400          | 0.00400          | 0.00400          | 0.00400          | 0.00400          | 0.00400          | 0.00400          | 0.00400          | 0.00400          |
|                            | o-Xylene                           | <0.00200         | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          | 0.00200          |
|                            | Total Xylenes                      | <0.002000        | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         |
|                            | Total BTEX                         | <0.002000        | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         | 0.002000         |
|                            | Chloride                           | 116 X            | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             |
| <b>TPH by SW8015 Mod</b>   | <i>Extracted:</i>                  | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 | 12.01.2020 17:00 |
|                            | <i>Analyzed:</i>                   | 12.02.2020 01:57 | 12.02.2020 02:55 | 12.02.2020 03:14 | 12.02.2020 03:33 | 12.02.2020 03:52 | 12.02.2020 04:12 | 12.02.2020 04:31 | 12.02.2020 04:50 | 12.02.2020 05:09 | 12.02.2020 05:28 |
|                            | <i>Units/RL:</i>                   | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            | mg/kg            |
|                            | Gasoline Range Hydrocarbons (GRO)  | <50.0            | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             |
|                            | Diesel Range Organics (DRO)        | <50.0            | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             |
|                            | Motor Oil Range Hydrocarbons (MRO) | <50.0            | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             | 50.0             |
| Total TPH                  |                                    | <50.00           | 50.00            | 50.00            | 50.00            | 50.00            | 50.00            | 50.00            | 50.00            | 50.00            | 50.00            |

BRL - Below Reporting Limit

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





# Certificate of Analysis Summary 678962

## Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

**Date Received in Lab:** Tue 11.24.2020 15:31  
**Report Date:** 12.18.2020 14:55  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:<br/>Field Id:<br/>Depth:<br/>Matrix:<br/>Sampled:</i> | 678962-007<br>C-3<br>SOIL<br>11.24.2020 10:52                        | 678962-008<br>C-4<br>SOIL<br>11.24.2020 10:54                        | 678962-009<br>C-5<br>SOIL<br>11.24.2020 10:56                        | 678962-010<br>C-6<br>SOIL<br>11.24.2020 10:58                        |
|------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
|                                    | <i>Extracted:<br/>Analyzed:<br/>Units/RL:</i>                    | 12.02.2020 08:00<br>12.02.2020 15:48<br>mg/kg RL<br><0.00200 0.00200 | 12.02.2020 08:00<br>12.02.2020 16:08<br>mg/kg RL<br><0.00200 0.00200 | 12.01.2020 08:00<br>12.01.2020 13:40<br>mg/kg RL<br><0.00200 0.00200 | 12.01.2020 08:00<br>12.01.2020 14:01<br>mg/kg RL<br><0.00199 0.00199 |
| Benzene                            |                                                                  | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00199 0.00199                                                     |
| Toluene                            |                                                                  | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00199 0.00199                                                     |
| Ethylbenzene                       |                                                                  | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00199 0.00199                                                     |
| m,p-Xylenes                        |                                                                  | <0.00400 0.00400                                                     | <0.00400 0.00400                                                     | <0.00399 0.00399                                                     | <0.00398 0.00398                                                     |
| o-Xylene                           |                                                                  | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00200 0.00200                                                     | <0.00199 0.00199                                                     |
| Total Xylenes                      |                                                                  | <0.002000 0.002000                                                   | <0.002000 0.002000                                                   | <0.002000 0.002000                                                   | <0.001990 0.001990                                                   |
| Total BTEX                         |                                                                  | <0.002000 0.002000                                                   | <0.002000 0.002000                                                   | <0.002000 0.002000                                                   | <0.001990 0.001990                                                   |
| <b>Chloride by EPA 300</b>         |                                                                  |                                                                      |                                                                      |                                                                      |                                                                      |
| Chloride                           | <i>Extracted:</i>                                                | 11.25.2020 09:45                                                     | 11.25.2020 09:45                                                     | 11.25.2020 11:15                                                     | 11.25.2020 11:15                                                     |
|                                    | <i>Analyzed:</i>                                                 | 11.25.2020 13:24                                                     | 11.25.2020 13:31                                                     | 11.25.2020 16:33                                                     | 11.25.2020 16:39                                                     |
|                                    | <i>Units/RL:</i>                                                 | mg/kg RL<br>359 50.0                                                 | mg/kg RL<br>128 49.5                                                 | mg/kg RL<br>1300 50.3                                                | mg/kg RL<br>216 50.1                                                 |
| <b>TPH by SW8015 Mod</b>           |                                                                  |                                                                      |                                                                      |                                                                      |                                                                      |
| TPH                                | <i>Extracted:</i>                                                | 12.01.2020 17:00                                                     | 12.01.2020 17:00                                                     | 12.01.2020 17:00                                                     | 12.01.2020 17:00                                                     |
|                                    | <i>Analyzed:</i>                                                 | 12.02.2020 04:31                                                     | 12.02.2020 04:50                                                     | 12.02.2020 05:09                                                     | 12.02.2020 05:28                                                     |
|                                    | <i>Units/RL:</i>                                                 | mg/kg RL<br><50.0 50.0                                               | mg/kg RL<br><49.9 49.9                                               | mg/kg RL<br><49.9 49.9                                               | mg/kg RL<br><50.0 50.0                                               |
| Gasoline Range Hydrocarbons (GRO)  |                                                                  | <50.0 50.0                                                           | <49.9 49.9                                                           | <49.9 49.9                                                           | <50.0 50.0                                                           |
| Diesel Range Organics (DRO)        |                                                                  | <50.0 50.0                                                           | <49.9 49.9                                                           | 216 49.9                                                             | <50.0 50.0                                                           |
| Motor Oil Range Hydrocarbons (MRO) |                                                                  | <50.0 50.0                                                           | <49.9 49.9                                                           | <49.9 49.9                                                           | <50.0 50.0                                                           |
| Total TPH                          |                                                                  | <50.00 50.00                                                         | <49.90 49.90                                                         | 216.0 49.90                                                          | <50.00 50.00                                                         |

BRL - Below Reporting Limit



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

# Analytical Report 678962

for

**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Skeen 2H**

**20-0107-03**

**12.18.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.18.2020

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **678962**  
**Skeen 2H**  
Project Address:

**Mark Larson:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678962. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678962 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



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**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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

## Sample Cross Reference 678962

**Larson and Associates, Inc., Midland, TX**

Skeen 2H

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| SW-N      | S      | 11.24.2020 10:40 |              | 678962-001    |
| SW-E      | S      | 11.24.2020 10:42 |              | 678962-002    |
| SW-S      | S      | 11.24.2020 10:44 |              | 678962-003    |
| SW-W      | S      | 11.24.2020 10:46 |              | 678962-004    |
| C-1       | S      | 11.24.2020 10:48 |              | 678962-005    |
| C-2       | S      | 11.24.2020 10:50 |              | 678962-006    |
| C-3       | S      | 11.24.2020 10:52 |              | 678962-007    |
| C-4       | S      | 11.24.2020 10:54 |              | 678962-008    |
| C-5       | S      | 11.24.2020 10:56 |              | 678962-009    |
| C-6       | S      | 11.24.2020 10:58 |              | 678962-010    |

## CASE NARRATIVE

**Client Name:** *Larson and Associates, Inc.*

**Project Name:** *Skeen 2H*

Project ID: 20-0107-03  
Work Order Number(s): 678962

Report Date: 12.18.2020  
Date Received: 11.24.2020

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**Sample receipt non conformances and comments:**

12/18/2020 1.001 Revised to change sample IDs for 005-010 per Robert Nelson (email). HT

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**Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3143457 Chloride by EPA 300

Lab Sample ID 678962-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678962-001, -002, -004, -005, -006, -007, -008.

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

Batch: LBA-3143719 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 678962-004, 678962-002.

Batch: LBA-3143802 BTEX by EPA 8021B

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

Samples affected are: 678962-001.

Lab Sample ID 678962-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678962-001, -002, -003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-N** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-001 Date Collected: 11.24.2020 10:40  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 116    | 50.0 | mg/kg | 11.25.2020 12:10 | X    | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 12.02.2020 01:57     | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 12.02.2020 01:57     | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 12.02.2020 01:57     | U           | 1   |
| Total TPH                          | PHC635            | <50.00            | 50.00        | mg/kg         | 12.02.2020 01:57     | U           | 1   |
| <b>Surrogate</b>                   | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                     | 111-85-3          | 127               | %            | 70-130        | 12.02.2020 01:57     |             |     |
| o-Terphenyl                        | 84-15-1           | 126               | %            | 70-130        | 12.02.2020 01:57     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-N** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-001 Date Collected: 11.24.2020 10:40  
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A  
 Tech: MNR  
 Analyst: MNR Date Prep: 12.02.2020 08:00 % Moisture:  
 Seq Number: 3143802 Basis: Wet Weight

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 13:35     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 13:35     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 13:35     | UX          | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.02.2020 13:35     | UX          | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 13:35     | UX          | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 13:35     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 13:35     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 0                 | %            | 70-130        | 12.02.2020 13:35     | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 86                | %            | 70-130        | 12.02.2020 13:35     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-E** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-002 Date Collected: 11.24.2020 10:42  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 289    | 49.6 | mg/kg | 11.25.2020 12:32 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 12.02.2020 02:55     | U           | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO         | <b>61.9</b>       | 49.8         | mg/kg         | 12.02.2020 02:55     |             | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 12.02.2020 02:55     | U           | 1   |
| <b>Total TPH</b>                   | PHC635            | <b>61.90</b>      | 49.80        | mg/kg         | 12.02.2020 02:55     |             | 1   |
| <b>Surrogate</b>                   | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                     | 111-85-3          | 126               | %            | 70-130        | 12.02.2020 02:55     |             |     |
| o-Terphenyl                        | 84-15-1           | 144               | %            | 70-130        | 12.02.2020 02:55     | **          |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

|                                      |                                  |                                 |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: <b>SW-E</b>               | Matrix: Soil                     | Date Received: 11.24.2020 15:31 |
| Lab Sample Id: 678962-002            | Date Collected: 11.24.2020 10:42 |                                 |
| Analytical Method: BTEX by EPA 8021B |                                  | Prep Method: SW5035A            |
| Tech: MNR                            |                                  |                                 |
| Analyst: MNR                         | Date Prep: 12.02.2020 08:00      | % Moisture:                     |
| Seq Number: 3143802                  |                                  | Basis: Wet Weight               |

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 13:55 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 13:55 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 13:55 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400  | 0.00400  | mg/kg | 12.02.2020 13:55 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 13:55 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 12.02.2020 13:55 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 12.02.2020 13:55 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 88         | %     | 70-130 | 12.02.2020 13:55 |      |
| 4-Bromofluorobenzene | 460-00-4   | 99         | %     | 70-130 | 12.02.2020 13:55 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-S** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-003 Date Collected: 11.24.2020 10:44  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: SPC  
 Analyst: CHE Date Prep: 11.30.2020 15:35 % Moisture:  
 Seq Number: 3143554 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 22.1   | 4.95 | mg/kg | 12.01.2020 09:25 |      | 1   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 12.02.2020 03:14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 12.02.2020 03:14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 12.02.2020 03:14 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 12.02.2020 03:14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-130 | 12.02.2020 03:14 |      |
| o-Terphenyl    | 84-15-1    | 120        | %     | 70-130 | 12.02.2020 03:14 |      |



# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

|                                      |                                  |                                 |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: <b>SW-S</b>               | Matrix: Soil                     | Date Received: 11.24.2020 15:31 |
| Lab Sample Id: 678962-003            | Date Collected: 11.24.2020 10:44 |                                 |
| Analytical Method: BTEX by EPA 8021B |                                  | Prep Method: SW5035A            |
| Tech: MNR                            |                                  |                                 |
| Analyst: MNR                         | Date Prep: 12.02.2020 08:00      | % Moisture:                     |
| Seq Number: 3143802                  |                                  | Basis: Wet Weight               |

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 14:16 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 14:16 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 14:16 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400  | 0.00400  | mg/kg | 12.02.2020 14:16 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 14:16 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 12.02.2020 14:16 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 12.02.2020 14:16 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 87         | %     | 70-130 | 12.02.2020 14:16 |      |
| 4-Bromofluorobenzene | 460-00-4   | 99         | %     | 70-130 | 12.02.2020 14:16 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-W** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-004 Date Collected: 11.24.2020 10:46  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 253    | 50.2 | mg/kg | 11.25.2020 13:02 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 12.02.2020 03:33     | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 12.02.2020 03:33     | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 12.02.2020 03:33     | U           | 1   |
| Total TPH                          | PHC635            | <50.00            | 50.00        | mg/kg         | 12.02.2020 03:33     | U           | 1   |
| <b>Surrogate</b>                   | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                     | 111-85-3          | 128               | %            | 70-130        | 12.02.2020 03:33     |             |     |
| o-Terphenyl                        | 84-15-1           | 141               | %            | 70-130        | 12.02.2020 03:33     | **          |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **SW-W**  
 Lab Sample Id: 678962-004

Matrix: Soil  
 Date Collected: 11.24.2020 10:46

Date Received: 11.24.2020 15:31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MNR

Analyst: MNR

Date Prep: 12.02.2020 08:00

% Moisture:  
 Basis: Wet Weight

Seq Number: 3143802

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 14:36     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 81                | %            | 70-130        | 12.02.2020 14:36     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 12.02.2020 14:36     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-1** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-005 Date Collected: 11.24.2020 10:48  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 180    | 49.7 | mg/kg | 11.25.2020 13:09 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 12.02.2020 03:52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 12.02.2020 03:52 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 12.02.2020 03:52 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 12.02.2020 03:52 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-130 | 12.02.2020 03:52 |      |
| o-Terphenyl    | 84-15-1    | 120        | %     | 70-130 | 12.02.2020 03:52 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-1**  
 Lab Sample Id: 678962-005

Matrix: Soil  
 Date Collected: 11.24.2020 10:48

Date Received: 11.24.2020 15:31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MNR

Analyst: MNR

Date Prep: 12.02.2020 08:00

% Moisture:  
 Basis: Wet Weight

Seq Number: 3143802

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 14:57     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 98                | %            | 70-130        | 12.02.2020 14:57     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 87                | %            | 70-130        | 12.02.2020 14:57     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-2** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-006 Date Collected: 11.24.2020 10:50  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 184    | 49.6 | mg/kg | 11.25.2020 13:16 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9  | mg/kg | 12.02.2020 04:12 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9  | mg/kg | 12.02.2020 04:12 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9  | mg/kg | 12.02.2020 04:12 | U    | 1   |
| Total TPH                          | PHC635     | <49.90 | 49.90 | mg/kg | 12.02.2020 04:12 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-130 | 12.02.2020 04:12 |      |
| o-Terphenyl    | 84-15-1    | 120        | %     | 70-130 | 12.02.2020 04:12 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

|                                      |                                  |                                 |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: <b>C-2</b>                | Matrix: Soil                     | Date Received: 11.24.2020 15:31 |
| Lab Sample Id: 678962-006            | Date Collected: 11.24.2020 10:50 |                                 |
| Analytical Method: BTEX by EPA 8021B |                                  | Prep Method: SW5035A            |
| Tech: MNR                            |                                  |                                 |
| Analyst: MNR                         | Date Prep: 12.02.2020 08:00      | % Moisture:                     |
| Seq Number: 3143802                  |                                  | Basis: Wet Weight               |

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 15:18 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 15:18 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 12.02.2020 15:18 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400  | 0.00400  | mg/kg | 12.02.2020 15:18 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 12.02.2020 15:18 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 12.02.2020 15:18 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 12.02.2020 15:18 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 95         | %     | 70-130 | 12.02.2020 15:18 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 85         | %     | 70-130 | 12.02.2020 15:18 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-3** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-007 Date Collected: 11.24.2020 10:52  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 359    | 50.0 | mg/kg | 11.25.2020 13:24 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 12.02.2020 04:31 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 12.02.2020 04:31 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 12.02.2020 04:31 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 12.02.2020 04:31 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 118        | %     | 70-130 | 12.02.2020 04:31 |      |
| o-Terphenyl    | 84-15-1    | 123        | %     | 70-130 | 12.02.2020 04:31 |      |



# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-3**  
 Lab Sample Id: 678962-007

Matrix: Soil  
 Date Collected: 11.24.2020 10:52

Date Received: 11.24.2020 15:31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MNR

Analyst: MNR

Date Prep: 12.02.2020 08:00

% Moisture:  
 Basis: Wet Weight

Seq Number: 3143802

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 15:48     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 83                | %            | 70-130        | 12.02.2020 15:48     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 95                | %            | 70-130        | 12.02.2020 15:48     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-4** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-008 Date Collected: 11.24.2020 10:54  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 11.25.2020 09:45 % Moisture:  
 Seq Number: 3143457 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 128    | 49.5 | mg/kg | 11.25.2020 13:31 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9  | mg/kg | 12.02.2020 04:50 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9  | mg/kg | 12.02.2020 04:50 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9  | mg/kg | 12.02.2020 04:50 | U    | 1   |
| Total TPH                          | PHC635     | <49.90 | 49.90 | mg/kg | 12.02.2020 04:50 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 117        | %     | 70-130 | 12.02.2020 04:50 |      |
| o-Terphenyl    | 84-15-1    | 122        | %     | 70-130 | 12.02.2020 04:50 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-4**  
 Lab Sample Id: 678962-008

Matrix: Soil  
 Date Collected: 11.24.2020 10:54

Date Received: 11.24.2020 15:31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MNR

Analyst: MNR

Date Prep: 12.02.2020 08:00

% Moisture:  
 Basis: Wet Weight

Seq Number: 3143802

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 12.02.2020 16:08     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 95                | %            | 70-130        | 12.02.2020 16:08     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 70-130        | 12.02.2020 16:08     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-5** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-009 Date Collected: 11.24.2020 10:56  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: SPC  
 Analyst: CHE Date Prep: 11.25.2020 11:15 % Moisture:  
 Seq Number: 3143454 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1300   | 50.3 | mg/kg | 11.25.2020 16:33 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 12.02.2020 05:09     | U           | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO         | <b>216</b>        | 49.9         | mg/kg         | 12.02.2020 05:09     |             | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 12.02.2020 05:09     | U           | 1   |
| <b>Total TPH</b>                   | PHC635            | <b>216.0</b>      | 49.90        | mg/kg         | 12.02.2020 05:09     |             | 1   |
| <b>Surrogate</b>                   | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1-Chlorooctane                     | 111-85-3          | 124               | %            | 70-130        | 12.02.2020 05:09     |             |     |
| o-Terphenyl                        | 84-15-1           | 129               | %            | 70-130        | 12.02.2020 05:09     |             |     |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

|                                      |                                  |                                 |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: <b>C-5</b>                | Matrix: Soil                     | Date Received: 11.24.2020 15:31 |
| Lab Sample Id: 678962-009            | Date Collected: 11.24.2020 10:56 |                                 |
| Analytical Method: BTEX by EPA 8021B |                                  | Prep Method: SW5035A            |
| Tech: MNR                            |                                  |                                 |
| Analyst: MNR                         | Date Prep: 12.01.2020 08:00      | % Moisture:                     |
| Seq Number: 3143691                  |                                  | Basis: Wet Weight               |

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 12.01.2020 13:40 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 12.01.2020 13:40 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 12.01.2020 13:40 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399  | 0.00399  | mg/kg | 12.01.2020 13:40 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 12.01.2020 13:40 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 12.01.2020 13:40 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 12.01.2020 13:40 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 85         | %     | 70-130 | 12.01.2020 13:40 |      |
| 4-Bromofluorobenzene | 460-00-4   | 97         | %     | 70-130 | 12.01.2020 13:40 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-6** Matrix: Soil Date Received: 11.24.2020 15:31  
 Lab Sample Id: 678962-010 Date Collected: 11.24.2020 10:58  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: SPC  
 Analyst: CHE Date Prep: 11.25.2020 11:15 % Moisture:  
 Seq Number: 3143454 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 216    | 50.1 | mg/kg | 11.25.2020 16:39 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:  
 Seq Number: 3143719 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 12.02.2020 05:28 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 12.02.2020 05:28 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 12.02.2020 05:28 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 12.02.2020 05:28 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-130 | 12.02.2020 05:28 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-130 | 12.02.2020 05:28 |      |

# Certificate of Analytical Results 678962

## Larson and Associates, Inc., Midland, TX

Skeen 2H

|                                      |                                  |                                 |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: <b>C-6</b>                | Matrix: Soil                     | Date Received: 11.24.2020 15:31 |
| Lab Sample Id: 678962-010            | Date Collected: 11.24.2020 10:58 |                                 |
| Analytical Method: BTEX by EPA 8021B |                                  | Prep Method: SW5035A            |
| Tech: MNR                            |                                  |                                 |
| Analyst: MNR                         | Date Prep: 12.01.2020 08:00      | % Moisture:                     |
| Seq Number: 3143691                  |                                  | Basis: Wet Weight               |

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199  | 0.00199  | mg/kg | 12.01.2020 14:01 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199  | 0.00199  | mg/kg | 12.01.2020 14:01 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199  | 0.00199  | mg/kg | 12.01.2020 14:01 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398  | 0.00398  | mg/kg | 12.01.2020 14:01 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199  | 0.00199  | mg/kg | 12.01.2020 14:01 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.001990 | 0.001990 | mg/kg | 12.01.2020 14:01 | U    | 1   |
| Total BTEX    |             | <0.001990 | 0.001990 | mg/kg | 12.01.2020 14:01 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 89         | %     | 70-130 | 12.01.2020 14:01 |      |
| 4-Bromofluorobenzene | 460-00-4   | 105        | %     | 70-130 | 12.01.2020 14:01 |      |

# Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



## Larson and Associates, Inc. Skeen 2H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143457

MB Sample Id: 7715949-1-BLK

Matrix: Solid

LCS Sample Id: 7715949-1-BKS

Prep Method: E300P

Date Prep: 11.25.2020

LCSD Sample Id: 7715949-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 265        | 106      | 265         | 106       | 90-110 | 0    | 20        | mg/kg | 11.25.2020 10:13 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143454

MB Sample Id: 7715962-1-BLK

Matrix: Solid

LCS Sample Id: 7715962-1-BKS

Prep Method: E300P

Date Prep: 11.25.2020

LCSD Sample Id: 7715962-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 259        | 104      | 261         | 104       | 90-110 | 1    | 20        | mg/kg | 11.25.2020 14:05 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143554

MB Sample Id: 7716101-1-BLK

Matrix: Solid

LCS Sample Id: 7716101-1-BKS

Prep Method: E300P

Date Prep: 11.30.2020

LCSD Sample Id: 7716101-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 270        | 108      | 270         | 108       | 90-110 | 0    | 20        | mg/kg | 12.01.2020 08:35 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143457

Parent Sample Id: 678865-001

Matrix: Soil

MS Sample Id: 678865-001 S

Prep Method: E300P

Date Prep: 11.25.2020

MSD Sample Id: 678865-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 3100          | 2510         | 6010      | 116     | 5880       | 111      | 90-110 | 2    | 20        | mg/kg | 11.25.2020 10:35 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143457

Parent Sample Id: 678962-001

Matrix: Soil

MS Sample Id: 678962-001 S

Prep Method: E300P

Date Prep: 11.25.2020

MSD Sample Id: 678962-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 116           | 2500         | 3050      | 117     | 2960       | 114      | 90-110 | 3    | 20        | mg/kg | 11.25.2020 12:18 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143454

Parent Sample Id: 679025-001

Matrix: Soil

MS Sample Id: 679025-001 S

Prep Method: E300P

Date Prep: 11.25.2020

MSD Sample Id: 679025-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 989           | 248          | 1200      | 85      | 1200       | 85       | 90-110 | 0    | 20        | mg/kg | 11.25.2020 14:21 | X    |

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

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

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

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

## Larson and Associates, Inc. Skeen 2H

### Analytical Method: Chloride by EPA 300

Seq Number: 3143454

Parent Sample Id: 679026-005

Matrix: Soil

MS Sample Id: 679026-005 S

Prep Method: E300P

Date Prep: 11.25.2020

MSD Sample Id: 679026-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 63.2          | 250          | 311       | 99      | 311        | 99       | 90-110 | 0    | 20        | mg/kg | 11.25.2020 15:35 |      |

### Analytical Method: Chloride by EPA 300

Seq Number: 3143554

Parent Sample Id: 679045-001

Matrix: Soil

MS Sample Id: 679045-001 S

Prep Method: E300P

Date Prep: 11.30.2020

MSD Sample Id: 679045-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 9.47          | 248          | 275       | 107     | 275        | 107      | 90-110 | 0    | 20        | mg/kg | 12.01.2020 08:54 |      |

### Analytical Method: TPH by SW8015 Mod

Seq Number: 3143719

MB Sample Id: 7716215-1-BLK

Matrix: Solid

LCS Sample Id: 7716215-1-BKS

Prep Method: SW8015P

Date Prep: 12.01.2020

LCSD Sample Id: 7716215-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 1100       | 110      | 1100        | 110       | 70-130 | 0    | 20        | mg/kg | 12.02.2020 01:19 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1130       | 113      | 1200        | 120       | 70-130 | 6    | 20        | mg/kg | 12.02.2020 01:19 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 117     |         | 130      |          | 101       |           | 70-130 | %     | 12.02.2020 01:19 |
| o-Terphenyl    | 122     |         | 129      |          | 122       |           | 70-130 | %     | 12.02.2020 01:19 |

### Analytical Method: TPH by SW8015 Mod

Seq Number: 3143719

Matrix: Solid  
MB Sample Id: 7716215-1-BLK

Prep Method: SW8015P

Date Prep: 12.01.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.02.2020 00:59 |      |

### Analytical Method: TPH by SW8015 Mod

Seq Number: 3143719

Parent Sample Id: 678962-001

Matrix: Soil

MS Sample Id: 678962-001 S

Prep Method: SW8015P

Date Prep: 12.01.2020

MSD Sample Id: 678962-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.9         | 998          | 1030      | 103     | 1080       | 108      | 70-130 | 5    | 20        | mg/kg | 12.02.2020 02:17 |      |
| Diesel Range Organics (DRO)       | <49.9         | 998          | 1060      | 106     | 1170       | 117      | 70-130 | 10   | 20        | mg/kg | 12.02.2020 02:17 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 123     |         | 127      |          | 70-130 | %     | 12.02.2020 02:17 |
| o-Terphenyl    | 113     |         | 118      |          | 70-130 | %     | 12.02.2020 02:17 |

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

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

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

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

## Larson and Associates, Inc. Skeen 2H

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

Seq Number: 3143691

MB Sample Id: 7716252-1-BLK

Matrix: Solid

LCS Sample Id: 7716252-1-BKS

Prep Method: SW5035A

Date Prep: 12.01.2020

LCSD Sample Id: 7716252-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.0857     | 86       | 0.110       | 110       | 70-130 | 25   | 35        | mg/kg | 12.01.2020 10:57 |      |
| Toluene      | <0.00200  | 0.100        | 0.0893     | 89       | 0.102       | 102       | 70-130 | 13   | 35        | mg/kg | 12.01.2020 10:57 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0870     | 87       | 0.0988      | 99        | 70-130 | 13   | 35        | mg/kg | 12.01.2020 10:57 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.169      | 85       | 0.190       | 95        | 70-130 | 12   | 35        | mg/kg | 12.01.2020 10:57 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0866     | 87       | 0.0959      | 96        | 70-130 | 10   | 35        | mg/kg | 12.01.2020 10:57 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 82      |         | 88       |          | 94        |           | 70-130 | %     | 12.01.2020 10:57 |
| 4-Bromofluorobenzene | 92      |         | 93       |          | 91        |           | 70-130 | %     | 12.01.2020 10:57 |

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

Seq Number: 3143802

MB Sample Id: 7716344-1-BLK

Matrix: Solid

LCS Sample Id: 7716344-1-BKS

Prep Method: SW5035A

Date Prep: 12.02.2020

LCSD Sample Id: 7716344-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.103      | 103      | 0.109       | 109       | 70-130 | 6    | 35        | mg/kg | 12.02.2020 11:11 |      |
| Toluene      | <0.00200  | 0.100        | 0.0993     | 99       | 0.104       | 104       | 70-130 | 5    | 35        | mg/kg | 12.02.2020 11:11 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.102      | 102      | 0.107       | 107       | 70-130 | 5    | 35        | mg/kg | 12.02.2020 11:11 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.192      | 96       | 0.203       | 102       | 70-130 | 6    | 35        | mg/kg | 12.02.2020 11:11 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0949     | 95       | 0.101       | 101       | 70-130 | 6    | 35        | mg/kg | 12.02.2020 11:11 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 82      |         | 92       |          | 93        |           | 70-130 | %     | 12.02.2020 11:11 |
| 4-Bromofluorobenzene | 94      |         | 91       |          | 94        |           | 70-130 | %     | 12.02.2020 11:11 |

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

Seq Number: 3143691

Parent Sample Id: 678984-001

Matrix: Soil

MS Sample Id: 678984-001 S

Prep Method: SW5035A

Date Prep: 12.01.2020

MSD Sample Id: 678984-001 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       | 0.0387    | 39      | 0.0759     | 76       | 70-130 | 65   | 35        | mg/kg | 12.01.2020 11:39 | XF   |
| Toluene      | <0.00200      | 0.0998       | 0.0458    | 46      | 0.0683     | 68       | 70-130 | 39   | 35        | mg/kg | 12.01.2020 11:39 | XF   |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0257    | 26      | 0.0383     | 38       | 70-130 | 39   | 35        | mg/kg | 12.01.2020 11:39 | XF   |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.0748    | 37      | 0.0985     | 49       | 70-130 | 27   | 35        | mg/kg | 12.01.2020 11:39 | X    |
| o-Xylene     | <0.00200      | 0.0998       | 0.0505    | 51      | 0.0633     | 63       | 70-130 | 22   | 35        | mg/kg | 12.01.2020 11:39 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 76      |         | 91       |          | 70-130 | %     | 12.01.2020 11:39 |
| 4-Bromofluorobenzene | 105     |         | 98       |          | 70-130 | %     | 12.01.2020 11:39 |

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

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

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

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

Larson and Associates, Inc.  
Skeen 2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143802

Parent Sample Id: 678962-001

Matrix: Soil

MS Sample Id: 678962-001 S

Prep Method: SW5035A

Date Prep: 12.02.2020

MSD Sample Id: 678962-001 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      | 0.100        | 0.106     | 106     | 0.0851     | 85       | 70-130 | 22   | 35        | mg/kg | 12.02.2020 11:53 |      |
| Toluene      | <0.00200      | 0.100        | 0.0837    | 84      | 0.0776     | 78       | 70-130 | 8    | 35        | mg/kg | 12.02.2020 11:53 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0675    | 68      | 0.0616     | 62       | 70-130 | 9    | 35        | mg/kg | 12.02.2020 11:53 | X    |
| m,p-Xylenes  | <0.00400      | 0.200        | 0.128     | 64      | 0.119      | 60       | 70-130 | 7    | 35        | mg/kg | 12.02.2020 11:53 | X    |
| o-Xylene     | <0.00200      | 0.100        | 0.0652    | 65      | 0.0597     | 60       | 70-130 | 9    | 35        | mg/kg | 12.02.2020 11:53 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 92      |         | 85       |          | 70-130 | %     | 12.02.2020 11:53 |
| 4-Bromofluorobenzene | 96      |         | 101      |          | 70-130 | %     | 12.02.2020 11:53 |

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

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

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

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

Data Reported to:

DATE: 1/24/20 PAGE 1 OF 1  
PO#: LAB WORK ORDER#:  
PROJECT LOCATION OR NAME: Sheen 2H  
LAI PROJECT #: 20-0107-03 COLLECTOR: TT

6789162

CHAIN-OF-CUSTODY

No 1427

|                                                                                     |       |                            |      |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
|-------------------------------------------------------------------------------------|-------|----------------------------|------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|--|
| TRRP report?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       | S=SOIL<br>W=WATER<br>A=AIR |      | P=PAINT<br>SL=SLUDGE<br>OT=OTHER |                 | PRESERVATION<br>HCl<br>HNO <sub>3</sub><br>H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/><br>ICE<br>UNPRESERVED |   | ANALYSES<br>BTEX <input type="checkbox"/> MTBE <input type="checkbox"/><br>TPH 418.1 <input type="checkbox"/> TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/><br>GASOLINE MOD 8015 <input type="checkbox"/><br>DIESEL - MOD 8015 <input type="checkbox"/><br>OIL - MOD 8015 <input type="checkbox"/><br>VOC 8260 <input type="checkbox"/><br>SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/><br>8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/><br>TBLP - METALS (RCRA) <input type="checkbox"/> TCLP VOC <input type="checkbox"/><br>TCLP - PEST <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/><br>TOTAL METALS (RCRA) <input type="checkbox"/> OTHER LIST <input type="checkbox"/><br>LEAD - TOTAL <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> TCLP <input type="checkbox"/><br>RCI <input type="checkbox"/> TOX <input type="checkbox"/> FLASHPOINT <input type="checkbox"/><br>TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/><br>PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/><br>EXPLOSIVES <input type="checkbox"/> PECTHOLATE <input type="checkbox"/><br>CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> |   | FIELD NOTES |  |
| Field Sample I.D.                                                                   | Lab # | Date                       | Time | Matrix                           | # of Containers |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| SW - N                                                                              |       | 1/24/20                    | 1040 | S                                | 1               | X                                                                                                                                                      | X | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | X |             |  |
| SW - E                                                                              |       |                            | 1042 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| SW - S                                                                              |       |                            | 1044 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| SW - W                                                                              |       |                            | 1046 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-1                                                                                 |       |                            | 1049 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-2                                                                                 |       |                            | 1050 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-3                                                                                 |       |                            | 1052 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-4                                                                                 |       |                            | 1054 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-5                                                                                 |       |                            | 1056 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| S-6                                                                                 |       |                            | 1058 |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| TOTAL 10                                                                            |       |                            |      |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| RELINQUISHED BY: (Signature)                                                        |       | DATE/TIME                  |      | RECEIVED BY: (Signature)         |                 | TURN AROUND TIME                                                                                                                                       |   | LABORATORY USE ONLY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |             |  |
| <i>Varson</i>                                                                       |       | 1/24/20 1531               |      | <i>Sheen</i>                     |                 | NORMAL <input checked="" type="checkbox"/><br>1 DAY <input type="checkbox"/><br>2 DAY <input type="checkbox"/><br>OTHER <input type="checkbox"/>       |   | RECEIVING TEMP: <u>2.4/2.9</u> THERM#: <u>28</u><br>CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED<br>CARRIER BILL # <u>          </u><br><input type="checkbox"/> HAND DELIVERED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |             |  |
| RELINQUISHED BY: (Signature)                                                        |       | DATE/TIME                  |      | RECEIVED BY: (Signature)         |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| RELINQUISHED BY: (Signature)                                                        |       | DATE/TIME                  |      | RECEIVED BY: (Signature)         |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |
| LABORATORY: <u>Xenlo</u>                                                            |       |                            |      |                                  |                 |                                                                                                                                                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |             |  |

**Eurofins Xenco, LLC**  
**Prelogin/Nonconformance Report- Sample Log-In**

**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 11.24.2020 03.31.00 PM

**Work Order #:** 678962

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** IR8

| Sample Receipt Checklist                                | Comments                       |
|---------------------------------------------------------|--------------------------------|
| #1 *Temperature of cooler(s)?                           | 2.9                            |
| #2 *Shipping container in good condition?               | Yes                            |
| #3 *Samples received on ice?                            | Yes                            |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A                            |
| #5 Custody Seals intact on sample bottles?              | N/A                            |
| #6 *Custody Seals Signed and dated?                     | N/A                            |
| #7 *Chain of Custody present?                           | Yes                            |
| #8 Any missing/extra samples?                           | No                             |
| #9 Chain of Custody signed when relinquished/ received? | Yes                            |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes                            |
| #11 Container label(s) legible and intact?              | Yes                            |
| #12 Samples in proper container/ bottle?                | Yes BTEX was in bulk container |
| #13 Samples properly preserved?                         | Yes                            |
| #14 Sample container(s) intact?                         | Yes                            |
| #15 Sufficient sample amount for indicated test(s)?     | Yes                            |
| #16 All samples received within hold time?              | Yes                            |
| #17 Subcontract of sample(s)?                           | N/A                            |
| #18 Water VOC samples have zero headspace?              | N/A                            |

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

Analyst:

PH Device/Lot#:

**Checklist completed by:**



Brianna Teel

Date: 11.24.2020

**Checklist reviewed by:**



Holly Taylor

Date: 11.29.2020

# Certificate of Analysis Summary 681077

## Larson and Associates, Inc., Midland, TX

Project Name: Skeen 2H

**Project Id:** 20-0107-03  
**Contact:** Mark Larson  
**Project Location:**

**Date Received in Lab:** Tue 12.15.2020 10:42  
**Report Date:** 12.22.2020 08:56  
**Project Manager:** Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 681077-001       |  |  |  |  |  |
|------------------------------------|-------------------|------------------|--|--|--|--|--|
|                                    | <i>Field Id:</i>  | C-5              |  |  |  |  |  |
|                                    | <i>Depth:</i>     |                  |  |  |  |  |  |
|                                    | <i>Matrix:</i>    | SOIL             |  |  |  |  |  |
|                                    | <i>Sampled:</i>   | 12.14.2020 13:30 |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 12.16.2020 14:00 |  |  |  |  |  |
|                                    | <i>Analyzed:</i>  | 12.16.2020 19:22 |  |  |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         |  |  |  |  |  |
| Benzene                            |                   | <0.00200 0.00200 |  |  |  |  |  |
| Toluene                            |                   | <0.00200 0.00200 |  |  |  |  |  |
| Ethylbenzene                       |                   | <0.00200 0.00200 |  |  |  |  |  |
| m,p-Xylenes                        |                   | <0.00400 0.00400 |  |  |  |  |  |
| o-Xylene                           |                   | <0.00200 0.00200 |  |  |  |  |  |
| Total Xylenes                      |                   | <0.00200 0.00200 |  |  |  |  |  |
| Total BTEX                         |                   | <0.00200 0.00200 |  |  |  |  |  |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 12.16.2020 10:20 |  |  |  |  |  |
|                                    | <i>Analyzed:</i>  | 12.16.2020 11:39 |  |  |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         |  |  |  |  |  |
| Chloride                           |                   | 304 50.4         |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 12.17.2020 14:00 |  |  |  |  |  |
|                                    | <i>Analyzed:</i>  | 12.18.2020 00:08 |  |  |  |  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         |  |  |  |  |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.0 50.0       |  |  |  |  |  |
| Diesel Range Organics (DRO)        |                   | <50.0 50.0       |  |  |  |  |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0       |  |  |  |  |  |
| Total TPH                          |                   | <50.0 50.0       |  |  |  |  |  |

BRL - Below Reporting Limit



# **Analytical Report 681077**

**for**

**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Skeen 2H**

**20-0107-03**

**12.22.2020**

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



12.22.2020

Project Manager: **Mark Larson**  
**Larson and Associates, Inc.**  
P. O. Box 50685  
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **681077**  
**Skeen 2H**  
Project Address:

**Mark Larson:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681077. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681077 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



---

**Holly Taylor**  
Project Manager

*A Small Business and Minority Company*

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

## Sample Cross Reference 681077

**Larson and Associates, Inc., Midland, TX**

Skeen 2H

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| C-5       | S      | 12.14.2020 13:30 |              | 681077-001    |

## CASE NARRATIVE

***Client Name: Larson and Associates, Inc.***

***Project Name: Skeen 2H***

Project ID: 20-0107-03  
Work Order Number(s): 681077

Report Date: 12.22.2020  
Date Received: 12.15.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None

# Certificate of Analytical Results 681077

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-5** Matrix: Soil Date Received: 12.15.2020 10:42  
 Lab Sample Id: 681077-001 Date Collected: 12.14.2020 13:30  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: CHE  
 Analyst: CHE Date Prep: 12.16.2020 10:20 % Moisture:  
 Seq Number: 3145163 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 304    | 50.4 | mg/kg | 12.16.2020 11:39 |      | 10  |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: DVM  
 Analyst: ARM Date Prep: 12.17.2020 14:00 % Moisture:  
 Seq Number: 3145320 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.18.2020 00:08 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.18.2020 00:08 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.18.2020 00:08 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.18.2020 00:08 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-130 | 12.18.2020 00:08 |      |
| o-Terphenyl    | 84-15-1    | 111        | %     | 70-130 | 12.18.2020 00:08 |      |

# Certificate of Analytical Results 681077

## Larson and Associates, Inc., Midland, TX

Skeen 2H

Sample Id: **C-5**  
 Lab Sample Id: 681077-001

Matrix: Soil  
 Date Collected: 12.14.2020 13:30

Date Received: 12.15.2020 10:42

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 12.16.2020 14:00

% Moisture:  
 Basis: Wet Weight

Seq Number: 3145180

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 12.16.2020 19:22 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 85         | %     | 70-130 | 12.16.2020 19:22 |      |
| 4-Bromofluorobenzene | 460-00-4   | 101        | %     | 70-130 | 12.16.2020 19:22 |      |

# Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Larson and Associates, Inc.

Skeen 2H

Analytical Method: Chloride by EPA 300

Seq Number: 3145163

MB Sample Id: 7717240-1-BLK

Matrix: Solid

LCS Sample Id: 7717240-1-BKS

Prep Method: E300P

Date Prep: 12.16.2020

LCSD Sample Id: 7717240-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <5.00     | 250          | 255        | 102      | 254         | 102       | 90-110 | 0    | 20        | mg/kg | 12.16.2020 10:42 |      |

Analytical Method: Chloride by EPA 300

Seq Number: 3145163

Parent Sample Id: 680993-005

Matrix: Soil

MS Sample Id: 680993-005 S

Prep Method: E300P

Date Prep: 12.16.2020

MSD Sample Id: 680993-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 13.1          | 248          | 272       | 104     | 273        | 105      | 90-110 | 0    | 20        | mg/kg | 12.16.2020 12:11 |      |

Analytical Method: Chloride by EPA 300

Seq Number: 3145163

Parent Sample Id: 681035-003

Matrix: Soil

MS Sample Id: 681035-003 S

Prep Method: E300P

Date Prep: 12.16.2020

MSD Sample Id: 681035-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 325           | 251          | 572       | 98      | 575        | 100      | 90-110 | 1    | 20        | mg/kg | 12.16.2020 10:58 |      |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3145320

MB Sample Id: 7717394-1-BLK

Matrix: Solid

LCS Sample Id: 7717394-1-BKS

Prep Method: SW8015P

Date Prep: 12.17.2020

LCSD Sample Id: 7717394-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 956        | 96       | 971         | 97        | 70-130 | 2    | 20        | mg/kg | 12.17.2020 17:04 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1050       | 105      | 1040        | 104       | 70-130 | 1    | 20        | mg/kg | 12.17.2020 17:04 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 111     |         | 129      |          | 128       |           | 70-130 | %     | 12.17.2020 17:04 |
| o-Terphenyl    | 121     |         | 98       |          | 97        |           | 70-130 | %     | 12.17.2020 17:04 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3145320

Matrix: Solid

MB Sample Id: 7717394-1-BLK

Prep Method: SW8015P

Date Prep: 12.17.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.17.2020 16:46 |      |

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

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

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

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

Larson and Associates, Inc.

Skeen 2H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3145320

Parent Sample Id: 680993-001

Matrix: Soil

MS Sample Id: 680993-001 S

Prep Method: SW8015P

Date Prep: 12.17.2020

MSD Sample Id: 680993-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0         | 999          | 1160      | 116     | 1190       | 119      | 70-130 | 3    | 20        | mg/kg | 12.17.2020 18:00 |      |
| Diesel Range Organics (DRO)       | <50.0         | 999          | 1150      | 115     | 1190       | 119      | 70-130 | 3    | 20        | mg/kg | 12.17.2020 18:00 |      |

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 129     |         | 119      |          | 70-130 | %     | 12.17.2020 18:00 |
| o-Terphenyl    | 97      |         | 128      |          | 70-130 | %     | 12.17.2020 18:00 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3145180

MB Sample Id: 7717309-1-BLK

Matrix: Solid

LCS Sample Id: 7717309-1-BKS

Prep Method: SW5035A

Date Prep: 12.16.2020

LCSD Sample Id: 7717309-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.0851     | 85       | 0.0832      | 83        | 70-130 | 2    | 35        | mg/kg | 12.16.2020 15:16 |      |
| Toluene      | <0.00200  | 0.100        | 0.0942     | 94       | 0.0950      | 95        | 70-130 | 1    | 35        | mg/kg | 12.16.2020 15:16 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0976     | 98       | 0.101       | 101       | 70-130 | 3    | 35        | mg/kg | 12.16.2020 15:16 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.176      | 88       | 0.177       | 89        | 70-130 | 1    | 35        | mg/kg | 12.16.2020 15:16 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0867     | 87       | 0.0875      | 88        | 70-130 | 1    | 35        | mg/kg | 12.16.2020 15:16 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 79      |         | 87       |          | 87        |           | 70-130 | %     | 12.16.2020 15:16 |
| 4-Bromofluorobenzene | 99      |         | 93       |          | 96        |           | 70-130 | %     | 12.16.2020 15:16 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3145180

Parent Sample Id: 681035-003

Matrix: Soil

MS Sample Id: 681035-003 S

Prep Method: SW5035A

Date Prep: 12.16.2020

MSD Sample Id: 681035-003 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00201      | 0.101        | 0.0664    | 66      | 0.0562     | 57       | 70-130 | 17   | 35        | mg/kg | 12.16.2020 15:57 | X    |
| Toluene      | <0.00201      | 0.101        | 0.0830    | 82      | 0.0785     | 79       | 70-130 | 6    | 35        | mg/kg | 12.16.2020 15:57 |      |
| Ethylbenzene | <0.00201      | 0.101        | 0.0897    | 89      | 0.0886     | 89       | 70-130 | 1    | 35        | mg/kg | 12.16.2020 15:57 |      |
| m,p-Xylenes  | <0.00402      | 0.201        | 0.153     | 76      | 0.153      | 77       | 70-130 | 0    | 35        | mg/kg | 12.16.2020 15:57 |      |
| o-Xylene     | <0.00201      | 0.101        | 0.0827    | 82      | 0.0763     | 77       | 70-130 | 8    | 35        | mg/kg | 12.16.2020 15:57 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 82      |         | 76       |          | 70-130 | %     | 12.16.2020 15:57 |
| 4-Bromofluorobenzene | 95      |         | 94       |          | 70-130 | %     | 12.16.2020 15:57 |

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

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

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

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



## CHAIN-OF-CUSTODY

**Varson & Associates, Inc.**  
Environmental Consultants

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

Data Reported to:

DATE: 12/15/2020 PAGE 1 OF 1  
PO#: \_\_\_\_\_ LAB WORK ORDER#: \_\_\_\_\_  
PROJECT LOCATION OR NAME: SKEN RH  
LAI PROJECT #: 20-0107-03 COLLECTOR: TJ

TRRP report?  
☐ Yes ☒ No

S=SOIL  
W=WATER  
A=AIR

P=PAINT  
SL=SLUDGE  
OT=OTHER

TIME ZONE:

Time zone/State:

MST/UTM

Field Sample I.D.

Lab #

Date

Time

Matrix

# of Containers

HCl

HNO<sub>3</sub>H<sub>2</sub>SO<sub>4</sub> ☐ NaOH ☐

ICE

UNPRESSERVED

## ANALYSES

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

FIELD NOTES

C-5

12/14/20

1330

S

1

TOTAL

UNQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

UNQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

UNQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

LABORATORY:

X ENCO

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 0.9THERM#: 128CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL # \_\_\_\_\_

☐ HAND DELIVERED

**Eurofins Xenco, LLC**  
**Prelogin/Nonconformance Report- Sample Log-In**

**Client:** Larson and Associates, Inc.

**Date/ Time Received:** 12.15.2020 10.42.00 AM

**Work Order #:** 681077

**Acceptable Temperature Range:** 0 - 6 degC

**Air and Metal samples Acceptable Range:** Ambient

**Temperature Measuring device used :** IR8

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

BTEX was in bulk container

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

Analyst:

PH Device/Lot#:

**Checklist completed by:**



Brianna Teel

Date: 12.15.2020

**Checklist reviewed by:**



Holly Taylor

Date: 12.18.2020

## **Appendix B**

### **Photographs**





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

| GENERATOR                    |                      | NO. 211125                                         |
|------------------------------|----------------------|----------------------------------------------------|
| Operator No. _____           | Permit/RRC No. _____ | Lease/Well Name & No. <u>Sheen 22627 State 7-H</u> |
| Operators Name <u>Marion</u> | County _____         | API No. <u>33015 41097</u>                         |
| Address _____                | Rig Name & No. _____ | AFE/PO No. _____                                   |
| City, State, Zip _____       |                      |                                                    |
| Phone No. _____              |                      |                                                    |

| EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)                                                               |                                                   |                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|
| Oil Based Muds _____                                                                                                                                                         | NON-INJECTABLE WATERS                             | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings _____                                                                                                                                                     | Washout Water (Non-Injectable) _____              | <u>belly</u>                                                   |
| Water Based Muds _____                                                                                                                                                       | Completion Fluid/Flow back (Non-Injectable) _____ |                                                                |
| Water Based Cuttings _____                                                                                                                                                   | Produced Water (Non-Injectable) _____             |                                                                |
| Produced Formation Solids _____                                                                                                                                              | Gathering Line Water/Waste (Non-Injectable) _____ |                                                                |
| Tank Bottoms _____                                                                                                                                                           | INTERNAL USE ONLY                                 |                                                                |
| E&P Contaminated Soil <u>✓</u>                                                                                                                                               | Truck Washout (exempt waste) _____                |                                                                |
| Gas Plant Waste _____                                                                                                                                                        |                                                   |                                                                |
| WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES |                                                   |                                                                |

| NON-EXEMPT E&P Waste/Service Identification and Amount                                                                                     |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. |                                                   |
| Non-Exempt Other _____                                                                                                                     | *please select from Non-Exempt Waste List on back |

| QUANTITY | B - BARRELS | Y - YARDS | E - EACH |
|----------|-------------|-----------|----------|
|          | <u>20</u>   |           |          |

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below) \_\_\_\_\_

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

| TRANSPORTER                   |                                    |
|-------------------------------|------------------------------------|
| Transporter's Name <u>JMT</u> | Driver's Name <u>Bryce Herrera</u> |
| Address _____                 | Print Name _____                   |
| Phone No. _____               | Phone No. _____                    |
|                               | Truck No. <u>162</u>               |

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 12-1-20 DRIVER'S SIGNATURE Bryce Herrera DELIVERY DATE 12-1-20 DRIVER'S SIGNATURE Bryce Herrera

| TRUCK TIME STAMP              | DISPOSAL FACILITY | RECEIVING AREA     |
|-------------------------------|-------------------|--------------------|
| IN: <u>3:33 PM</u> OUT: _____ |                   | Name/No. <u>D1</u> |

Site Name/ Permit No. Red Bluff Facility/ STF-065 Phone No. 432-448-4239

Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) \_\_\_\_\_ Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

| TANK BOTTOMS    |                          |
|-----------------|--------------------------|
| 1st Gauge _____ | BS&W/BBLs Received _____ |
| 2nd Gauge _____ | Free Water _____         |
| Received _____  | Total Received _____     |

I hereby certify that the above load material has been (circle one): ACCEPTED 12-1-20 Rel If denied, why? MNawamele

NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_ TITLE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



# CHEVRON MCBU

## Carlsbad, NM

|                                                                                                                      |                                                                                                                                                                                                      |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------|--|
| NO #CAR- <b>3382</b>                                                                                                 |                                                                                                                                                                                                      | <b>NON-HAZARDOUS WASTE MANIFEST</b> |                                             |                       | 1. PAGE <u>1</u> OF <u>4</u>                                                                                                |                                     | 2. TRAILER NO. <u>162</u>                    |                       |  |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                                                             | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                           |                                     | 4. ADDRESS<br><b>3150 E. GREENE ST.</b>     |                       |                                                                                                                             | 5. PICK-UP DATE<br><b>12-1-2020</b> |                                              |                       |  |
|                                                                                                                      | PHONE NO.<br><b>575-887-5676</b>                                                                                                                                                                     |                                     | CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |                       |                                                                                                                             | 6.                                  |                                              |                       |  |
|                                                                                                                      | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>Contaminated Soil D.I + PW</b>                                                                                                                        |                                     |                                             |                       | 8. CONTAINERS<br>No. Type                                                                                                   |                                     | 9. TOTAL QUANTITY                            |                       |  |
|                                                                                                                      | a. <b>API - 30615410470001</b>                                                                                                                                                                       |                                     |                                             |                       | 1 <b>BD</b>                                                                                                                 |                                     | <b>20yds</b>                                 |                       |  |
|                                                                                                                      | b. <b>COST CODE UCRE 12000</b>                                                                                                                                                                       |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
|                                                                                                                      | c.                                                                                                                                                                                                   |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
|                                                                                                                      | d.                                                                                                                                                                                                   |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
|                                                                                                                      | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>SCREEN 2 Well Site Cleanup</b>                                                                                                                           |                                     |                                             |                       |                                                                                                                             |                                     | 13. WASTE PROFILE NO.                        |                       |  |
|                                                                                                                      | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b><br><b>CHEVRON CARLSBAD</b>                                                                                                                         |                                     |                                             |                       |                                                                                                                             |                                     | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                       |  |
|                                                                                                                      | 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above.                                                                 |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b>                                           | PRINTED TYPED NAME<br><b>STEPHEN POE CVX</b>                                                                                                                                                         |                                     |                                             |                       | SIGNATURE<br><i>Steph Poe CVX</i>                                                                                           |                                     | DATE<br><b>12-1-2020</b>                     |                       |  |
|                                                                                                                      | 16. <b>TRANSPORTER (1)</b><br>NAME <b>Angela Herrera RB</b>                                                                                                                                          |                                     |                                             |                       | 17. <b>TRANSPORTER (2)</b><br>NAME                                                                                          |                                     |                                              |                       |  |
|                                                                                                                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                                                                                                    |                                     |                                             |                       | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                           |                                     |                                              |                       |  |
|                                                                                                                      | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME <i>[Signature]</i><br>SIGNATURE <i>[Signature]</i> DATE <b>12-1-20</b>                                       |                                     |                                             |                       | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME _____<br>SIGNATURE _____ DATE _____ |                                     |                                              |                       |  |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N<br/>F<br/>A<br/>C<br/>I<br/>L<br/>I<br/>T<br/>Y</b> | ADDRESS<br><b>3360 Environmental Solutions - Red Bluff</b>                                                                                                                                           |                                     | 5053 US Highway 285                         |                       |                                                                                                                             | PHONE:                              |                                              |                       |  |
|                                                                                                                      | PERMIT NO.                                                                                                                                                                                           |                                     | Orla, TX 79770. 432-448-4239                |                       |                                                                                                                             |                                     |                                              |                       |  |
|                                                                                                                      | 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                     |                                             |                       |                                                                                                                             |                                     |                                              |                       |  |
| AUTHORIZED SIGNATURE<br><i>Maria Navarrete</i>                                                                       |                                                                                                                                                                                                      |                                     |                                             | CELL NO.<br><b>DL</b> |                                                                                                                             | DATE<br><b>12-01-20</b>             |                                              | TIME<br><b>3:33pm</b> |  |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name

Phone No.

## GENERATOR

NO.

211131

Operator No. \_\_\_\_\_  
Operators Name Cheron  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Shen 22 27 stat 7-H  
County 30-015 41047  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

|                           |          |                              |                                             |       |                                                                                |
|---------------------------|----------|------------------------------|---------------------------------------------|-------|--------------------------------------------------------------------------------|
| Oil Based Muds            | _____    | NON-INJECTABLE WATERS        | Washout Water (Non-Injectable)              | _____ | OTHER EXEMPT WASTES (type and generation process of the waste)<br><u>Bolls</u> |
| Oil Based Cuttings        | _____    |                              | Completion Fluid/Flow back (Non-Injectable) | _____ |                                                                                |
| Water Based Muds          | _____    |                              | Produced Water (Non-Injectable)             | _____ |                                                                                |
| Water Based Cuttings      | _____    |                              | Gathering Line Water/Waste (Non-Injectable) | _____ |                                                                                |
| Produced Formation Solids | _____    |                              | INTERNAL USE ONLY                           | _____ |                                                                                |
| Tank Bottoms              | _____    | Truck Washout (exempt waste) | _____                                       |       |                                                                                |
| E&P Contaminated Soil     | <u>✓</u> |                              |                                             |       |                                                                                |
| Gas Plant Waste           | _____    |                              |                                             |       |                                                                                |

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name JHJ  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Frederick  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

|                                                   |                   |                                      |
|---------------------------------------------------|-------------------|--------------------------------------|
| TRUCK TIME STAMP<br>IN: <u>1:51 PM</u> OUT: _____ | DISPOSAL FACILITY | RECEIVING AREA<br>Name/No. <u>D1</u> |
|---------------------------------------------------|-------------------|--------------------------------------|

Site Name/ Permit No. Red Bluff Facility/ STF-065  
Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO  
Chloride \_\_\_\_\_  
Chemical Analysis (Mg/l) \_\_\_\_\_

If YES, was reading > 50 micro roentgens? (circle one) YES NO  
Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

## TANK BOTTOMS

|           | Feet | Inches |
|-----------|------|--------|
| 1st Gauge |      |        |
| 2nd Gauge |      |        |
| Received  |      |        |

|                    |  |          |  |
|--------------------|--|----------|--|
| BS&W/BBLS Received |  | BS&W (%) |  |
| Free Water         |  |          |  |
| Total Received     |  |          |  |

I hereby certify that the above load material has been (circle one):

ACCEPTEDDENIED

If denied, why?

Maric Navamete  
NAME (PRINT)

12-01-20  
DATE

Roc  
TITLE

M Navamete  
SIGNATURE

# CHEVRON MCBU

**Carlsbad, NM**

|                                                                                                                                                                                                      |                                                                                                                                      |                                                                                                                          |                                             |                      |                                                                   |                                |                                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------|-------------------------------------------------------------------|--------------------------------|----------------------------------------------|---------------------|
| NO #CAR- <b>8080</b>                                                                                                                                                                                 |                                                                                                                                      | <b>NON-HAZARDOUS WASTE MANIFEST</b>                                                                                      |                                             |                      | 1. PAGE <u>1</u> OF <u>1</u>                                      |                                | 2. TRAILER NO.                               |                     |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                                                                                                                                             | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                           |                                                                                                                          | 4. ADDRESS<br><b>3150 E. GREENE ST.</b>     |                      |                                                                   | 5. PICK-UP DATE<br><b>11/2</b> |                                              |                     |
|                                                                                                                                                                                                      | PHONE NO.<br><b>575-887-5676</b>                                                                                                     |                                                                                                                          | CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |                      |                                                                   | 6.                             |                                              |                     |
|                                                                                                                                                                                                      | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>Contaminated Soil Oil &amp; Pw</b>                                                    |                                                                                                                          |                                             |                      | 8. CONTAINERS<br>No. Type                                         |                                | 9. TOTAL<br>QUANTITY                         | 10. UNIT<br>WT/Vol. |
|                                                                                                                                                                                                      | a. <b>APE - 306154 10470001</b>                                                                                                      |                                                                                                                          |                                             |                      | 1 <b>BD</b>                                                       |                                | <b>20 yds</b>                                |                     |
|                                                                                                                                                                                                      | b. <b>1001 CODE - 10000 12000</b>                                                                                                    |                                                                                                                          |                                             |                      |                                                                   |                                |                                              |                     |
| <b>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b>                                                                                                                                 | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>SKEN 2 wellsite cleanup</b>                                                              |                                                                                                                          |                                             |                      | 13. WASTE PROFILE NO.                                             |                                |                                              |                     |
|                                                                                                                                                                                                      | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>                                                                                    |                                                                                                                          |                                             |                      |                                                                   |                                |                                              |                     |
|                                                                                                                                                                                                      | <b>CHEVRON CARLSBAD</b>                                                                                                              |                                                                                                                          |                                             |                      |                                                                   |                                | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                     |
|                                                                                                                                                                                                      | 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above. |                                                                                                                          |                                             |                      |                                                                   |                                |                                              |                     |
|                                                                                                                                                                                                      | PRINTED TYPED NAME<br><b>STEPHEN PEE</b>                                                                                             |                                                                                                                          |                                             |                      | SIGNATURE<br><i>[Signature]</i>                                   |                                | DATE<br><b>12-1-20</b>                       |                     |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>Y</b>                                                                                                                                             | 16. <b>TRANSPORTER (1)</b><br>NAME<br><b>[Signature]</b>                                                                             |                                                                                                                          |                                             |                      | 17. <b>TRANSPORTER (2)</b><br>NAME                                |                                |                                              |                     |
|                                                                                                                                                                                                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                                    |                                                                                                                          |                                             |                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                 |                                |                                              |                     |
|                                                                                                                                                                                                      | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material                                                                    |                                                                                                                          |                                             |                      | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material |                                |                                              |                     |
|                                                                                                                                                                                                      | PRINTED/TYPED NAME <b>[Signature]</b>                                                                                                |                                                                                                                          |                                             |                      | PRINTED/TYPED NAME _____                                          |                                |                                              |                     |
|                                                                                                                                                                                                      | SIGNATURE <b>[Signature]</b> DATE <b>12-1-20</b>                                                                                     |                                                                                                                          |                                             |                      | SIGNATURE _____ DATE _____                                        |                                |                                              |                     |
| DISPOSAL SITE                                                                                                                                                                                        |                                                                                                                                      | <b>Red Bluff Environmental Solutions - Red Bluff</b><br><b>5053 US Highway 285</b><br><b>Orla, TX 79770 432-448-4239</b> |                                             |                      |                                                                   |                                |                                              |                     |
| PERMIT NO.                                                                                                                                                                                           |                                                                                                                                      | 20. COMMENTS                                                                                                             |                                             |                      |                                                                   |                                |                                              |                     |
| 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                                                                                                                      |                                                                                                                          |                                             |                      |                                                                   |                                |                                              |                     |
| AUTHORIZED SIGNATURE<br><b>Maria Navarrete</b>                                                                                                                                                       |                                                                                                                                      |                                                                                                                          |                                             | CELL NO.<br><b>D</b> |                                                                   | DATE<br><b>12-1-20</b>         |                                              | TIME<br><b>1:51</b> |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

| GENERATOR        |              | NO.                                               |
|------------------|--------------|---------------------------------------------------|
| Operator No.     | _____        | 211132                                            |
| Operators Name   | <u>Arcon</u> | Permit/RRC No. _____                              |
| Address          | _____        | Lease/Well Name & No. <u>SKan 22627 State 7-H</u> |
| City, State, Zip | _____        | County <u>30-015-91047</u>                        |
| Phone No.        | _____        | API No. _____                                     |
|                  |              | Rig Name & No. _____                              |
|                  |              | AFE/PO No. _____                                  |

| EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)                                                               |          |                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------|
| Oil Based Muds                                                                                                                                                               | _____    | NON-INJECTABLE WATERS                             |
| Oil Based Cuttings                                                                                                                                                           | _____    | Washout Water (Non-Injectable) _____              |
| Water Based Muds                                                                                                                                                             | _____    | Completion Fluid/Flow back (Non-Injectable) _____ |
| Water Based Cuttings                                                                                                                                                         | _____    | Produced Water (Non-Injectable) _____             |
| Produced Formation Solids                                                                                                                                                    | _____    | Gathering Line Water/Waste (Non-Injectable) _____ |
| Tank Bottoms                                                                                                                                                                 | _____    | INTERNAL USE ONLY                                 |
| E&P Contaminated Soil                                                                                                                                                        | <u>✓</u> | Truck Washout (exempt waste) _____                |
| Gas Plant Waste                                                                                                                                                              | _____    |                                                   |
| WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES |          |                                                   |

| NON-EXEMPT E&P Waste/Service Identification and Amount                                                                                     |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. |                                                   |
| Non-Exempt Other _____                                                                                                                     | *please select from Non-Exempt Waste List on back |

| QUANTITY | B - BARRELS | Y - YARDS | E - EACH |
|----------|-------------|-----------|----------|
|          | <u>20</u>   |           |          |

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below) \_\_\_\_\_

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

| TRANSPORTER        |                       |
|--------------------|-----------------------|
| Transporter's Name | <u>JHT</u>            |
| Address            | _____                 |
| Phone No.          | _____                 |
| Driver's Name      | <u>Aras Hernandez</u> |
| Print Name         | _____                 |
| Phone No.          | _____                 |
| Truck No.          | <u>162</u>            |

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

12-1-20 Aras Hernandez 12-1-20 Aras Hernandez

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

| TRUCK TIME STAMP   |            | DISPOSAL FACILITY | RECEIVING AREA     |
|--------------------|------------|-------------------|--------------------|
| IN: <u>12:00AM</u> | OUT: _____ |                   | Name/No. <u>DI</u> |

|            |                                            |           |                     |
|------------|--------------------------------------------|-----------|---------------------|
| Site Name/ | <u>Red Bluff Facility/ STF-065</u>         | Phone No. | <u>432-448-4239</u> |
| Permit No. | _____                                      |           |                     |
| Address    | <u>5053 US Highway 285, Orla, TX 79770</u> |           |                     |

|                                                                                                        |                                                                                                                      |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| NORM READINGS TAKEN? (Circle One) <u>YES</u> <input checked="" type="radio"/> NO <input type="radio"/> | If YES, was reading > 50 micro roentgens? (circle one) YES <input type="radio"/> NO <input checked="" type="radio"/> |
| Chemical Analysis (Mg/I) <u>80</u>                                                                     | Conductivity (mmhos/cm) _____ pH _____                                                                               |

| TANK BOTTOMS |      |        |                   |
|--------------|------|--------|-------------------|
| 1st Gauge    | Feet | Inches | BS&W/BLS Received |
| 2nd Gauge    |      |        | Free Water        |
| Received     |      |        | Total Received    |

I hereby certify that the above load material has been (circle one): ACCEPTED 12-01-20 Rec If denied, why? MNawane

NAME (PRINT) DATE TITLE SIGNATURE



# CHEVRON MCBU

## Carlsbad, NM

|                      |                                                                                                                                                                                                |                              |                                             |                                                                                                                      |                                              |                          |     |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|-----|
| NO #CAR- <b>3378</b> |                                                                                                                                                                                                | NON-HAZARDOUS WASTE MANIFEST |                                             | 1. PAGE <u>1</u> OF <u>4</u>                                                                                         | 2. TRAILER NO.                               |                          |     |
| GENERATOR            | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                     |                              | 4. ADDRESS<br><b>3150 E. GREENE ST.</b>     |                                                                                                                      | 5. PICK-UP DATE<br><b>12-1-2020</b>          |                          |     |
|                      | PHONE NO.<br><b>575-887-5676</b>                                                                                                                                                               |                              | CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |                                                                                                                      | 6.                                           |                          |     |
|                      | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>Contaminated Soil D.I. &amp; PW</b>                                                                                                             |                              |                                             | 8. CONTAINERS<br>No. Type                                                                                            | 9. TOTAL QUANTITY                            | 10. UNIT WT/Vol.         | 11. |
|                      | a. <b>API - 30015410470001</b>                                                                                                                                                                 |                              |                                             | <b>1</b> <b>BD</b>                                                                                                   | <b>20 yds</b>                                |                          |     |
|                      | b. <b>Cost Code - UCRE 12000</b>                                                                                                                                                               |                              |                                             |                                                                                                                      |                                              |                          |     |
|                      | c.                                                                                                                                                                                             |                              |                                             |                                                                                                                      |                                              |                          |     |
|                      | d.                                                                                                                                                                                             |                              |                                             |                                                                                                                      |                                              |                          |     |
|                      | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>Well Site Clean up SPEER 2</b>                                                                                                                     |                              |                                             |                                                                                                                      | 13. WASTE PROFILE NO.                        |                          |     |
|                      | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>                                                                                                                                              |                              |                                             |                                                                                                                      | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                          |     |
|                      | 15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.                                                                  |                              |                                             |                                                                                                                      |                                              |                          |     |
| TRANSPORTER          | PRINTED TYPED NAME<br><b>STEPHEN POE CVX</b>                                                                                                                                                   |                              |                                             | SIGNATURE<br><b>Stephen Poe CVX</b>                                                                                  |                                              | DATE<br><b>12-1-2020</b> |     |
|                      | 16. TRANSPORTER (1)<br>NAME<br><b>Anthony R8m</b>                                                                                                                                              |                              |                                             | 17. TRANSPORTER (2)<br>NAME                                                                                          |                                              |                          |     |
|                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE: <b>432-232-1583</b>                                                                                                                          |                              |                                             | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                    |                                              |                          |     |
|                      | 18. TRANSPORTER (1): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME <b>Vicki</b><br>SIGNATURE <b>[Signature]</b> DATE <b>12-1-20</b>                                              |                              |                                             | 19. TRANSPORTER (2): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME _____<br>SIGNATURE _____ DATE _____ |                                              |                          |     |
| DISPOSAL SITE        | ADDRESS:<br><b>R360 Environmental Solutions - Red Bluff</b><br><b>5053 US Highway 285</b>                                                                                                      |                              |                                             | PHONE:                                                                                                               |                                              |                          |     |
|                      | PERMIT NO. <b>Orla, TX 79770 432-448-4239</b>                                                                                                                                                  |                              |                                             | 20. COMMENTS                                                                                                         |                                              |                          |     |
|                      | 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                              |                                             |                                                                                                                      |                                              |                          |     |
|                      | AUTHORIZED SIGNATURE<br><b>Marla Navarrete</b>                                                                                                                                                 |                              |                                             | CELL NO.<br><b>D1</b>                                                                                                | DATE<br><b>12-01-20</b>                      | TIME<br><b>12:00 AM</b>  |     |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

| GENERATOR                     |                             | NO. 211133                           |
|-------------------------------|-----------------------------|--------------------------------------|
| Operator No. _____            | Permit/RRC No. _____        | Skeen 22027 State 2H<br>30-015-41047 |
| Operators Name <u>Cherwon</u> | Lease/Well Name & No. _____ |                                      |
| Address _____                 | County _____                |                                      |
| City, State, Zip _____        | API No. _____               |                                      |
| Phone No. _____               | Rig Name & No. _____        |                                      |
| AFE/PO No. _____              |                             |                                      |

| EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)                                                               |                                                   |                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|
| Oil Based Muds _____                                                                                                                                                         | NON-INJECTABLE WATERS                             | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings _____                                                                                                                                                     | Washout Water (Non-Injectable) _____              | <u>Bolldump</u>                                                |
| Water Based Muds _____                                                                                                                                                       | Completion Fluid/Flow back (Non-Injectable) _____ |                                                                |
| Water Based Cuttings _____                                                                                                                                                   | Produced Water (Non-Injectable) _____             |                                                                |
| Produced Formation Solids _____                                                                                                                                              | Gathering Line Water/Waste (Non-Injectable) _____ |                                                                |
| Tank Bottoms _____                                                                                                                                                           | INTERNAL USE ONLY                                 |                                                                |
| E&P Contaminated Soil _____                                                                                                                                                  | Truck Washout (exempt waste) _____                |                                                                |
| Gas Plant Waste _____                                                                                                                                                        |                                                   |                                                                |
| WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES |                                                   |                                                                |

| NON-EXEMPT E&P Waste/Service Identification and Amount                                                                                     |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. |                                                   |
| Non-Exempt Other _____                                                                                                                     | *please select from Non-Exempt Waste List on back |

| QUANTITY | B - BARRELS | Y - YARDS | E - EACH |
|----------|-------------|-----------|----------|
|          | <u>20</u>   |           |          |

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below) \_\_\_\_\_

(PRINT) AUTHORIZED AGENTS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

| TRANSPORTER                   |                                  |
|-------------------------------|----------------------------------|
| Transporter's Name <u>JHT</u> | Driver's Name <u>Fred Horner</u> |
| Address _____                 | Print Name _____                 |
| Phone No. _____               | Phone No. _____                  |
|                               | Truck No. <u>162</u>             |

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

|                              |                                       |                              |                                       |
|------------------------------|---------------------------------------|------------------------------|---------------------------------------|
| SHIPMENT DATE <u>12-1-20</u> | DRIVER'S SIGNATURE <u>[Signature]</u> | DELIVERY DATE <u>12-1-20</u> | DRIVER'S SIGNATURE <u>[Signature]</u> |
|------------------------------|---------------------------------------|------------------------------|---------------------------------------|

| TRUCK TIME STAMP               | DISPOSAL FACILITY | RECEIVING AREA     |
|--------------------------------|-------------------|--------------------|
| IN: <u>10:30 AM</u> OUT: _____ |                   | Name/No. <u>DI</u> |

|                                                          |                               |
|----------------------------------------------------------|-------------------------------|
| Site Name/ Permit No. <u>Red Bluff Facility/ STF-065</u> | Phone No. <u>432-448-4239</u> |
| Address <u>5053 US Highway 285, Orla, TX 79770</u>       |                               |

|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| NORM READINGS TAKEN? (Circle One) <u>YES</u> NO | If YES, was reading > 50 micro roentgens? (circle one) YES NO |
| Chemical Analysis (Mg/l) _____                  | Conductivity (mmhos/cm) _____ pH _____                        |

| TANK BOTTOMS    |                          |
|-----------------|--------------------------|
| 1st Gauge _____ | BS&W/BBLS Received _____ |
| 2nd Gauge _____ | Free Water _____         |
| Received _____  | Total Received _____     |
| Feet _____      | BS&W (%) _____           |
| Inches _____    |                          |

|                                                                                                    |                                |
|----------------------------------------------------------------------------------------------------|--------------------------------|
| I hereby certify that the above load material has been (circle one): <u>ACCEPTED</u> <u>DENIED</u> | If denied, why? <u>MNanato</u> |
| NAME (PRINT) <u>Maria Nanato</u> DATE <u>12-1-20</u> TITLE <u>Rec</u> SIGNATURE <u>[Signature]</u> |                                |

# CHEVRON MCBU

## Carlsbad, NM

|                                                                            |                                                                                                                                                                                                       |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|---------------------|
| NO #CAR- 5510                                                              |                                                                                                                                                                                                       | <b>NON-HAZARDOUS WASTE MANIFEST</b> |                                                                                        |  | 1. PAGE <u>1</u> OF <u>1</u>                                                                                 |                                     | 2. TRAILER NO. <u>153</u>                    |                     |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                   | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b><br>PHONE NO. <b>575-887-5676</b>                                                                                                                           |                                     | 4. ADDRESS<br><b>3150 E. GREENE ST.</b><br>CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |  |                                                                                                              | 5. PICK-UP DATE<br><b>12-1-2020</b> |                                              |                     |
|                                                                            |                                                                                                                                                                                                       |                                     |                                                                                        |  |                                                                                                              | 6.                                  |                                              |                     |
|                                                                            | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>CONTAMINATED SOIL DIT &amp; VW</b>                                                                                                                     |                                     |                                                                                        |  | 8. CONTAINERS<br>No. Type                                                                                    |                                     | 9. TOTAL<br>QUANTITY                         | 10. UNIT<br>WT/Vol. |
|                                                                            | a. <b>Oil API - 30015416470001</b>                                                                                                                                                                    |                                     |                                                                                        |  | 1                                                                                                            |                                     | 312                                          | 50.1                |
|                                                                            | b. <b>Propanol 1-7A Cost Code MCBP 12000</b>                                                                                                                                                          |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
|                                                                            | c.                                                                                                                                                                                                    |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
|                                                                            | d.                                                                                                                                                                                                    |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
|                                                                            | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>Well site clean up</b>                                                                                                                                    |                                     |                                                                                        |  |                                                                                                              |                                     | 13. WASTE PROFILE NO.                        |                     |
|                                                                            | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b><br><b>CHEVRON CARLSBAD</b>                                                                                                                          |                                     |                                                                                        |  |                                                                                                              |                                     | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                     |
|                                                                            | 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above.                                                                  |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b> | 16. <b>TRANSPORTER (1)</b><br>NAME <b>Stephen Pore</b><br>IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE: <b>1-800-252-1500</b>                                                                     |                                     |                                                                                        |  | 17. <b>TRANSPORTER (2)</b><br>NAME<br>IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                      |                                     |                                              |                     |
|                                                                            | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME<br>SIGNATURE<br>DATE                                                                                          |                                     |                                                                                        |  | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME<br>SIGNATURE<br>DATE |                                     |                                              |                     |
|                                                                            | 20. COMMENTS                                                                                                                                                                                          |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
|                                                                            | 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                     |                                                                                        |  |                                                                                                              |                                     |                                              |                     |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>O<br/>R<br/>Y</b>       | PERMIT NO.                                                                                                                                                                                            |                                     | ADDRESS:<br><b>5053 US Highway 285</b><br><b>Orla, TX 79770-4924</b>                   |  |                                                                                                              | PHONE:                              |                                              |                     |
|                                                                            | AUTHORIZED SIGNATURE<br><b>Maria Navarrete</b>                                                                                                                                                        |                                     | CELL NO.<br><b>DI</b>                                                                  |  | DATE<br><b>12-01-20</b>                                                                                      |                                     | TIME<br><b>10:38AM</b>                       |                     |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name

Phone No.

## GENERATOR

NO.

212866

Operator No. \_\_\_\_\_  
Operators Name Chellon  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. Skeon 2427  
Lease/Well Name & No. State 241  
County 30015410470001  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

|                           |                                             |                                                                |
|---------------------------|---------------------------------------------|----------------------------------------------------------------|
| Oil Based Muds            | NON-INJECTABLE WATERS                       | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings        | Washout Water (Non-Injectable)              |                                                                |
| Water Based Muds          | Completion Fluid/Flow back (Non-Injectable) |                                                                |
| Water Based Cuttings      | Produced Water (Non-Injectable)             |                                                                |
| Produced Formation Solids | Gathering Line Water/Waste (Non-Injectable) |                                                                |
| Tank Bottoms              | INTERNAL USE ONLY                           |                                                                |
| E&P Contaminated Soil     | Truck Washout (exempt waste)                |                                                                |
| Gas Plant Waste           |                                             |                                                                |

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Rtm  
Address SHIT  
Phone No. \_\_\_\_\_

Driver's Name Pubian Contreras  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 12-1-20

DRIVER'S SIGNATURE

DELIVERY DATE 12-1-20

DRIVER'S SIGNATURE

TRUCK TIME STAMP  
IN: 3:30 PM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DI

Site Name/ Permit No. Red Bluff Facility/ STF-065  
Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l) \_\_\_\_\_  
Chloride \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_  
pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_ Feet \_\_\_\_\_ Inches \_\_\_\_\_  
2nd Gauge \_\_\_\_\_  
Received \_\_\_\_\_

|                    |          |
|--------------------|----------|
| BS&W/BBLs Received | BS&W (%) |
| Free Water         |          |
| Total Received     |          |

I hereby certify that the above load material has been (circle one)

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

# CHEVRON MCBU

## Carlsbad, NM

|                                                                                                                                      |                                                                                                                                                                                                       |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|--|-------------------------------------------------------------------|------------------------------------|----------------------------------------------|---------------------|
| NO #CAR-0533                                                                                                                         |                                                                                                                                                                                                       | <b>NON-HAZARDOUS WASTE MANIFEST</b> |                                             |  | 1. PAGE <u>1</u> OF <u>4</u>                                      |                                    | 2. TRAILER NO.                               |                     |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                                                                             | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                            |                                     | 4. ADDRESS<br><b>3150 E. GREENE ST.</b>     |  |                                                                   | 5. PICK-UP DATE<br><b>12-01-20</b> |                                              |                     |
|                                                                                                                                      | PHONE NO.<br><b>575-887-5676</b>                                                                                                                                                                      |                                     | CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |  |                                                                   | 6.                                 |                                              |                     |
|                                                                                                                                      | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>CONTAMINATED SOIL DIT + 120</b>                                                                                                                        |                                     |                                             |  | 8. CONTAINERS<br>No. Type                                         |                                    | 9. TOTAL<br>QUANTITY                         | 10. UNIT<br>WT/Vol. |
|                                                                                                                                      | a. <b>APE - 3201541047000</b>                                                                                                                                                                         |                                     |                                             |  | 1                                                                 |                                    | 1                                            |                     |
|                                                                                                                                      | b. <b>Cost Code WORK LABOR</b>                                                                                                                                                                        |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|                                                                                                                                      | c.                                                                                                                                                                                                    |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|                                                                                                                                      | d.                                                                                                                                                                                                    |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|                                                                                                                                      | 12. COMMENTS OR SPECIAL INSTRUCTIONS:                                                                                                                                                                 |                                     |                                             |  |                                                                   |                                    | 13. WASTE PROFILE NO.                        |                     |
|                                                                                                                                      | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>                                                                                                                                                     |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|                                                                                                                                      | <b>CHEVRON CARLSBAD</b>                                                                                                                                                                               |                                     |                                             |  |                                                                   |                                    | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                     |
| 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above. |                                                                                                                                                                                                       |                                     |                                             |  |                                                                   |                                    |                                              |                     |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b>                                                           | 16. <b>TRANSPORTER (1)</b><br>NAME<br><b>Stephen Pae CVX</b>                                                                                                                                          |                                     |                                             |  | 17. <b>TRANSPORTER (2)</b><br>NAME<br><b>Steph Pae</b>            |                                    |                                              |                     |
|                                                                                                                                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                                                                                                     |                                     |                                             |  | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                 |                                    |                                              |                     |
|                                                                                                                                      | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material                                                                                                                                     |                                     |                                             |  | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material |                                    |                                              |                     |
|                                                                                                                                      | PRINTED/TYPED NAME _____                                                                                                                                                                              |                                     |                                             |  | PRINTED/TYPED NAME _____                                          |                                    |                                              |                     |
|                                                                                                                                      | SIGNATURE _____ DATE _____                                                                                                                                                                            |                                     |                                             |  | SIGNATURE _____ DATE _____                                        |                                    |                                              |                     |
|                                                                                                                                      | ADDRESS:<br><b>R360 Environmental Solutions - Red Bluff</b><br><b>5053 US Highway 285</b>                                                                                                             |                                     |                                             |  | PHONE:                                                            |                                    |                                              |                     |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N<br/>A<br/>L<br/>S<br/>I<br/>T<br/>E</b>                             | PERMIT NO. <b>Orla, TX 79770 432-448-4239</b>                                                                                                                                                         |                                     |                                             |  | 20. COMMENTS                                                      |                                    |                                              |                     |
|                                                                                                                                      | 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                     |                                             |  |                                                                   |                                    |                                              |                     |
|                                                                                                                                      | AUTHORIZED SIGNATURE<br><b>Mariy N...</b>                                                                                                                                                             |                                     |                                             |  | CELL NO.<br><b>DI</b>                                             | DATE<br><b>12-01-20</b>            | TIME<br><b>3:38 PM</b>                       |                     |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name

Phone No.

## GENERATOR

NO.

212869

Operator No. Chellon  
Operators Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Screen 2 2027 State 2H  
County 30015-41047  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

|                           |                                             |                                                                |
|---------------------------|---------------------------------------------|----------------------------------------------------------------|
| Oil Based Muds            | NON-INJECTABLE WATERS                       | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings        | Washout Water (Non-Injectable)              |                                                                |
| Water Based Muds          | Completion Fluid/Flow back (Non-Injectable) |                                                                |
| Water Based Cuttings      | Produced Water (Non-Injectable)             |                                                                |
| Produced Formation Solids | Gathering Line Water/Waste (Non-Injectable) |                                                                |
| Tank Bottoms              | INTERNAL USE ONLY                           |                                                                |
| E&P Contaminated Soil     | Truck Washout (exempt waste)                |                                                                |
| Gas Plant Waste           |                                             |                                                                |

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name RXM  
Address JHT  
Phone No. \_\_\_\_\_

Driver's Name Rubon Contreras  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 10:41AM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D

Site Name/ Permit No. Red Bluff Facility/ STF-065  
Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/I) \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_

pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_ Feet \_\_\_\_\_ Inches \_\_\_\_\_  
2nd Gauge \_\_\_\_\_  
Received \_\_\_\_\_

|                    |          |
|--------------------|----------|
| BS&W/BBLS Received | BS&W (%) |
| Free Water         |          |
| Total Received     |          |

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

White - ORIGINAL

Blue - TRANSPORTER

Yellow - GENERATOR

Version 1

# CHEVRON MCBU

## Carlsbad, NM

|                                                                            |                                                                                                                                                                                                      |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|------------------------|------|
| <b>NO #</b> CAR-8577                                                       |                                                                                                                                                                                                      | <b>NON-HAZARDOUS WASTE MANIFEST</b> |                                                                                        |                       | 1. PAGE <u>1</u> OF <u>4</u>                                                                                                |                                     | 2. TRAILER NO. <u>1774</u>                   |                        |      |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                   | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b><br>PHONE NO. <b>575-887-5676</b>                                                                                                                          |                                     | 4. ADDRESS<br><b>3150 E. GREENE ST.</b><br>CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |                       |                                                                                                                             | 5. PICK-UP DATE<br><b>12-1-2000</b> |                                              |                        |      |
|                                                                            |                                                                                                                                                                                                      |                                     |                                                                                        |                       |                                                                                                                             | 6.                                  |                                              |                        |      |
|                                                                            | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><i>Contaminated Soil D.I.T. Plw</i>                                                                                                                      |                                     |                                                                                        |                       | 8. CONTAINERS<br>No. Type                                                                                                   |                                     | 9. TOTAL<br>QUANTITY                         | 10. UNIT<br>WT/Vol.    |      |
|                                                                            | a. <i>API-300154104700021</i>                                                                                                                                                                        |                                     |                                                                                        |                       | 1                                                                                                                           |                                     | 2000                                         |                        |      |
|                                                                            | b. <i>Cost Code MCRE 12000</i>                                                                                                                                                                       |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
|                                                                            | c.                                                                                                                                                                                                   |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
|                                                                            | d.                                                                                                                                                                                                   |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
|                                                                            | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><i>Well Site Clean up Skipped</i>                                                                                                                           |                                     |                                                                                        |                       |                                                                                                                             |                                     | 13. WASTE PROFILE NO.                        |                        |      |
|                                                                            | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b><br><b>CHEVRON CARLSBAD</b>                                                                                                                         |                                     |                                                                                        |                       |                                                                                                                             |                                     | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                        |      |
|                                                                            | 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above.                                                                 |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b> | PRINTED TYPED NAME<br><i>[Signature]</i>                                                                                                                                                             |                                     |                                                                                        |                       | SIGNATURE                                                                                                                   |                                     |                                              |                        | DATE |
|                                                                            | 16. <b>TRANSPORTER (1)</b><br>NAME <i>Laban Contreras</i>                                                                                                                                            |                                     |                                                                                        |                       | 17. <b>TRANSPORTER (2)</b><br>NAME                                                                                          |                                     |                                              |                        |      |
|                                                                            | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE: <i>722-272-1000</i>                                                                                                                                |                                     |                                                                                        |                       | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                           |                                     |                                              |                        |      |
|                                                                            | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME <i>[Signature]</i><br>SIGNATURE <i>[Signature]</i> DATE <i>12-1-2000</i>                                     |                                     |                                                                                        |                       | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME _____<br>SIGNATURE _____ DATE _____ |                                     |                                              |                        |      |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>Y</b>                   |                                                                                                                                                                                                      |                                     | ADDRESS:                                                                               |                       |                                                                                                                             | PHONE:                              |                                              |                        |      |
|                                                                            | PERMIT NO.                                                                                                                                                                                           |                                     |                                                                                        | 20. COMMENTS          |                                                                                                                             |                                     |                                              |                        |      |
|                                                                            | 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                     |                                                                                        |                       |                                                                                                                             |                                     |                                              |                        |      |
|                                                                            | AUTHORIZED SIGNATURE<br><i>Maria Navarero</i>                                                                                                                                                        |                                     |                                                                                        | CELL NO.<br><i>DI</i> |                                                                                                                             | DATE<br><i>10:40AM</i>              |                                              | TIME<br><i>12-1-20</i> |      |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name

Phone No.

|                             |                                     |                   |
|-----------------------------|-------------------------------------|-------------------|
| <b>GENERATOR</b>            |                                     | NO. <b>212870</b> |
| Operator No. <u>Chevron</u> | Permit/RRC No. <u>Skeen 2 State</u> |                   |
| Operators Name              | Lease/Well Name & No.               |                   |
| Address                     | County <u>Edley</u>                 |                   |
|                             | API No. <u>30015410470001</u>       |                   |
| City, State, Zip            | Rig Name & No.                      |                   |
| Phone No.                   | AFE/PO No.                          |                   |

|                                                                                                                                                                              |                                             |                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------|
| EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)                                                               |                                             |                                                                |
| Oil Based Muds                                                                                                                                                               | NON-INJECTABLE WATERS                       | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings                                                                                                                                                           | Washout Water (Non-Injectable)              |                                                                |
| Water Based Muds                                                                                                                                                             | Completion Fluid/Flow back (Non-Injectable) |                                                                |
| Water Based Cuttings                                                                                                                                                         | Produced Water (Non-Injectable)             |                                                                |
| Produced Formation Solids                                                                                                                                                    | Gathering Line Water/Waste (Non-Injectable) |                                                                |
| Tank Bottoms                                                                                                                                                                 | INTERNAL USE ONLY                           |                                                                |
| E&P Contaminated Soil                                                                                                                                                        | Truck Washout (exempt waste)                |                                                                |
| Gas Plant Waste                                                                                                                                                              |                                             |                                                                |
| WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES |                                             |                                                                |

|                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| NON-EXEMPT E&P Waste/Service Identification and Amount                                                                                     |                                                   |
| All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. |                                                   |
| Non-Exempt Other                                                                                                                           | *please select from Non-Exempt Waste List on back |

|          |             |          |
|----------|-------------|----------|
| QUANTITY | B - BARRELS | E - EACH |
|----------|-------------|----------|

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

|                                     |                    |                                   |
|-------------------------------------|--------------------|-----------------------------------|
| (PRINT) AUTHORIZED AGENTS SIGNATURE | DATE               | SIGNATURE                         |
| Transporter's Name <u>RtM</u>       | <b>TRANSPORTER</b> | Driver's Name <u>Ruben Cortez</u> |
| Address <u>JHT</u>                  |                    | Print Name                        |
| Phone No.                           |                    | Phone No.                         |
|                                     |                    | Truck No.                         |

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 12-1-20 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 12-1-20 DRIVER'S SIGNATURE [Signature]

|                                                          |                               |                                                                   |                             |
|----------------------------------------------------------|-------------------------------|-------------------------------------------------------------------|-----------------------------|
| TRUCK TIME STAMP                                         |                               | DISPOSAL FACILITY                                                 | RECEIVING AREA              |
| IN: <u>1:54 PM</u>                                       | OUT:                          |                                                                   | Name/No. <u>[Signature]</u> |
| Site Name/ Permit No. <u>Red Bluff Facility/ STF-065</u> | Phone No. <u>432-448-4239</u> |                                                                   |                             |
| Address <u>5053 US Highway 285, Orla, TX 79770</u>       |                               |                                                                   |                             |
| NORM READINGS TAKEN? (Circle One) <u>YES</u>             | NO                            | If YES, was reading > 50 micro roentgens? (circle one) <u>YES</u> | NO                          |
| Chemical Analysis (Mg/l) <u>Chloride</u>                 | Conductivity (mmhos/cm)       | pH                                                                |                             |

|                     |      |        |                    |
|---------------------|------|--------|--------------------|
| <b>TANK BOTTOMS</b> |      |        |                    |
| 1st Gauge           | Feet | Inches | BS&W/BBLs Received |
| 2nd Gauge           |      |        | Free Water         |
| Received            |      |        | Total Received     |

I hereby certify that the above load material has been (circle one): ACCEPTED 12-1-20 REC If denied, why? MWawunelo

NAME (PRINT) DATE TITLE SIGNATURE



# CHEVRON MCBU

## Carlsbad, NM

NO #CAR-**3381** NON-HAZARDOUS WASTE MANIFEST 1. PAGE 1 OF 4 2. TRAILER NO.

|                                                                            |                                                                                                                                                                                                      |                                         |                                                                                         |                                              |                          |                     |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|---------------------|
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                   | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                           | 4. ADDRESS<br><b>3150 E. GREENE ST.</b> |                                                                                         | 5. PICK-UP DATE<br><b>12-1-2020</b>          |                          |                     |
|                                                                            | PHONE NO.<br><b>575-887-5676</b>                                                                                                                                                                     | CITY<br><b>CARLSBAD, NM</b>             | STATE<br><b>88220</b>                                                                   | ZIP                                          | 6.                       |                     |
|                                                                            | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:<br><b>CONTAMINATED SOIL D.I + PW</b>                                                                                                                        |                                         |                                                                                         | 8. CONTAINERS<br>No. Type                    | 9. TOTAL<br>QUANTITY     | 10. UNIT<br>WT/Vol. |
|                                                                            | a. <b>API 30015416470001</b>                                                                                                                                                                         |                                         |                                                                                         | <b>1</b>                                     | <b>BD</b>                | <b>20 yds</b>       |
|                                                                            | b. <b>COST CODE LICRE120006</b>                                                                                                                                                                      |                                         |                                                                                         |                                              |                          |                     |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b> | c.                                                                                                                                                                                                   |                                         |                                                                                         |                                              |                          |                     |
|                                                                            | d.                                                                                                                                                                                                   |                                         |                                                                                         |                                              |                          |                     |
|                                                                            | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>SCREEN 2 wellsite cleanup</b>                                                                                                                            |                                         |                                                                                         | 13. WASTE PROFILE NO.                        |                          |                     |
|                                                                            | 14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>                                                                                                                                                    |                                         |                                                                                         | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                          |                     |
|                                                                            | 15. <b>GENERATOR'S CERTIFICATION:</b> Hereby declare that the contents of this consignment are fully and accurately described above.                                                                 |                                         |                                                                                         |                                              |                          |                     |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N</b>       | PRINTED TYPED NAME<br><b>STEPHEN POF</b>                                                                                                                                                             |                                         | SIGNATURE<br><i>Stephen Pof</i>                                                         |                                              | DATE<br><b>12-1-2020</b> |                     |
|                                                                            | 16. <b>TRANSPORTER (1)</b><br>NAME <b>Pablo Contreras</b>                                                                                                                                            |                                         | 17. <b>TRANSPORTER (2)</b><br>NAME                                                      |                                              |                          |                     |
|                                                                            | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE: <b>632-232-1503</b>                                                                                                                                |                                         | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                       |                                              |                          |                     |
|                                                                            | 18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME <b>[Signature]</b>                                                                                           |                                         | 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material<br>PRINTED/TYPED NAME |                                              |                          |                     |
|                                                                            | SIGNATURE <b>[Signature]</b> DATE <b>12-1-20</b>                                                                                                                                                     |                                         | SIGNATURE DATE                                                                          |                                              |                          |                     |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N</b>       | ADDRESS<br><b>R360 Environmental Solutions - Red Bluff</b>                                                                                                                                           |                                         |                                                                                         | PHONE:                                       |                          |                     |
|                                                                            | 5053 US Highway 285                                                                                                                                                                                  |                                         |                                                                                         |                                              |                          |                     |
|                                                                            | PERMIT NO. <b>Ora, TX 79770 432-448-4239</b>                                                                                                                                                         |                                         |                                                                                         | 20. COMMENTS                                 |                          |                     |
|                                                                            | 21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                         |                                                                                         |                                              |                          |                     |
| <b>L<br/>Y</b>                                                             | AUTHORIZED SIGNATURE<br><b>Maria Navarrete</b>                                                                                                                                                       |                                         | CELL NO.<br><b>DI</b>                                                                   | DATE<br><b>12-1-20</b>                       | TIME<br><b>1:58 PM</b>   |                     |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Man Contact Information

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name

Phone No.

## GENERATOR

NO.

212871

Operator No. Chellon

Operators Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Skelp 2627 State 241Eddy3006410470001

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

|                           |                                             |                                                                |
|---------------------------|---------------------------------------------|----------------------------------------------------------------|
| Oil Based Muds            | NON-INJECTABLE WATERS                       | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Oil Based Cuttings        | Washout Water (Non-Injectable)              |                                                                |
| Water Based Muds          | Completion Fluid/Flow back (Non-Injectable) |                                                                |
| Water Based Cuttings      | Produced Water (Non-Injectable)             |                                                                |
| Produced Formation Solids | Gathering Line Water/Waste (Non-Injectable) |                                                                |
| Tank Bottoms              | INTERNAL USE ONLY                           |                                                                |
| E&P Contaminated Soil     | Truck Washout (exempt waste)                |                                                                |
| Gas Plant Waste           |                                             |                                                                |

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name R+MAddress SHIT

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

Fabian Contreras174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

IN: 12-22PM TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No.

Site Name/

Permit No.

Address

Red Bluff Facility/ STF-065

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Conductivity (mmhos/cm)

pH

## TANK BOTTOMS

|           | Feet | Inches |
|-----------|------|--------|
| 1st Gauge |      |        |
| 2nd Gauge |      |        |
| Received  |      |        |

|                    |          |
|--------------------|----------|
| BS&W/BBLS Received | BS&W (%) |
| Free Water         |          |
| Total Received     |          |

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE

Maria Navarrete12-20RecM Navarrete

# CHEVRON MCBU

## Carlsbad, NM

NO #CAR-3079 NON-HAZARDOUS WASTE MANIFEST 1. PAGE \_\_\_ OF \_\_\_ 2. TRAILER NO. 1757

**G** 3. COMPANY NAME **CHEVRON CARLSBAD** 4. ADDRESS **3150 E. GREENE ST.** 5. PICK-UP DATE **12-1-2020**  
**E** PHONE NO. **575-887-5676** CITY **CARLSBAD, NM** STATE **88220** ZIP **88220** 6. \_\_\_\_\_

**N** 7. NAME OR DESCRIPTION OF WASTE SHIPPED: **Contaminated Soil M/L + P/L** 8. CONTAINERS No. **1** Type **BD** 9. TOTAL QUANTITY **20.00** 10. UNIT WT/Vol. **lb** 11. \_\_\_\_\_  
**E** a. **DOT 30915412470001**  
b. **Cont Code UN 19000**  
c. \_\_\_\_\_  
d. \_\_\_\_\_

**R** 12. COMMENTS OR SPECIAL INSTRUCTIONS: **Well Site Clean Up 3Kops?** 13. WASTE PROFILE NO. \_\_\_\_\_

**A** 14. **IN CASE OF EMERGENCY OR SPILL, CONTACT** 24-HOUR EMERGENCY NO. **575-887-5676**  
**T** **CHEVRON CARLSBAD**

**O** 15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.

**R** PRINTED TYPED NAME **Stephen Por** SIGNATURE **Stephen Por** DATE **12-1-2020**

**T** 16. TRANSPORTER (1) NAME **Stephen Por** 17. TRANSPORTER (2) NAME \_\_\_\_\_  
**R** IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT:  
**A** EMERGENCY PHONE: **575-887-5676** EMERGENCY PHONE: \_\_\_\_\_  
**N** 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material  
**S** PRINTED/TYPED NAME **Stephen Por** PRINTED/TYPED NAME \_\_\_\_\_  
SIGNATURE **Stephen Por** DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**D** 20. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

**I** ADDRESS: **Environmental Solutions** PHONE: \_\_\_\_\_  
**S** **5053 US Highway 281**  
**P** **Orla, TX 79770**

**O** PERMIT NO. \_\_\_\_\_

**L** 21. DISPOSAL FACILITY'S CERTIFICATION: AUTHORIZED SIGNATURE **Maria Navarrete** CELL NO. **DL** DATE **12-01-20** TIME **12:24 PM**

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

GENERATOR: COPY 1      TRANSPORTER: COPY 2      DISPOSAL SITE: COPY 3 & 4





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Main Contact Information

Name Joe Perez  
Phone No. \_\_\_\_\_

|                                    |                      |                                       |
|------------------------------------|----------------------|---------------------------------------|
| <b>GENERATOR</b>                   |                      | <b>NO.</b> <u>214104</u>              |
| Operator No. <u>Enrique Acosta</u> | Permit/RRC No. _____ | Lease/Well Name & No. <u>Skeen 2H</u> |
| Operators Name <u>Chelton</u>      | County _____         | API No. <u>3001541047</u>             |
| Address _____                      | Rig Name & No. _____ | AFE/PO No. _____                      |
| City, State, Zip _____             |                      |                                       |
| Phone No. _____                    |                      |                                       |

| EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)                                                               |                                                   |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|
| Oil Based Muds _____                                                                                                                                                         | <b>NON-INJECTABLE WATERS</b>                      | <b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) |
| Oil Based Cuttings _____                                                                                                                                                     | Washout Water (Non-Injectable) _____              | <u>Belly</u>                                                          |
| Water Based Muds _____                                                                                                                                                       | Completion Fluid/Flow back (Non-Injectable) _____ |                                                                       |
| Water Based Cuttings _____                                                                                                                                                   | Produced Water (Non-Injectable) _____             |                                                                       |
| Produced Formation Solids _____                                                                                                                                              | Gathering Line Water/Waste (Non-Injectable) _____ |                                                                       |
| Tank Bottoms _____                                                                                                                                                           | <b>INTERNAL USE ONLY</b>                          |                                                                       |
| E&P Contaminated Soil <u>✓</u>                                                                                                                                               | Truck Washout (exempt waste) _____                |                                                                       |
| Gas Plant Waste _____                                                                                                                                                        |                                                   |                                                                       |
| WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES |                                                   |                                                                       |

| NON-EXEMPT E&P Waste/Service Identification and Amount                                                                                     |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity. |                                                   |
| Non-Exempt Other _____                                                                                                                     | *please select from Non-Exempt Waste List on back |

|                 |                    |                            |                 |
|-----------------|--------------------|----------------------------|-----------------|
| <b>QUANTITY</b> | <b>B - BARRELS</b> | <b>Y - YARDS</b> <u>20</u> | <b>E - EACH</b> |
|-----------------|--------------------|----------------------------|-----------------|

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below) \_\_\_\_\_

|                                           |                                     |                 |
|-------------------------------------------|-------------------------------------|-----------------|
| (PRINT) AUTHORIZED AGENTS SIGNATURE _____ | DATE _____                          | SIGNATURE _____ |
| <b>TRANSPORTER</b>                        |                                     |                 |
| Transporter's Name <u>FS trucking</u>     | Driver's Name <u>Enrique Acosta</u> |                 |
| Address _____                             | Print Name _____                    |                 |
| Phone No. _____                           | Phone No. <u>1119</u>               |                 |
|                                           | Truck No. _____                     |                 |

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

|                               |                                          |                               |                                          |
|-------------------------------|------------------------------------------|-------------------------------|------------------------------------------|
| SHIPMENT DATE <u>12-14-20</u> | DRIVER'S SIGNATURE <u>Enrique Acosta</u> | DELIVERY DATE <u>12-14-20</u> | DRIVER'S SIGNATURE <u>Enrique Acosta</u> |
|-------------------------------|------------------------------------------|-------------------------------|------------------------------------------|

|                                           |                          |                       |
|-------------------------------------------|--------------------------|-----------------------|
| <b>IN: TRUCK TIME STAMP</b> <u>3:24PM</u> | <b>DISPOSAL FACILITY</b> | <b>RECEIVING AREA</b> |
| OUT: _____                                | Name/No. <u>D-1</u>      |                       |

|                                                          |                               |
|----------------------------------------------------------|-------------------------------|
| Site Name/ Permit No. <u>Red Bluff Facility/ STF-065</u> | Phone No. <u>432-448-4239</u> |
| Address <u>5053 US Highway 285, Orla, TX 79770</u>       |                               |

|                                                                                                        |                                                                                              |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| NORM READINGS TAKEN? (Circle One) <u>YES</u> <input checked="" type="radio"/> NO <input type="radio"/> | If YES, was reading > 50 micro roentgens? (circle one) YES <u>7</u> NO <input type="radio"/> |
| Chemical Analysis (Mg/l) _____                                                                         | Conductivity (mmhos/cm) _____ pH _____                                                       |

| TANK BOTTOMS    |        |                      |          |
|-----------------|--------|----------------------|----------|
| Feet            | Inches | BS&W/BBLS Received   | BS&W (%) |
| 1st Gauge _____ | _____  | Free Water _____     | _____    |
| 2nd Gauge _____ | _____  | Total Received _____ | _____    |
| Received _____  | _____  |                      |          |

|                                                                                                                                                                                   |                      |                  |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|------------------------------|
| I hereby certify that the above load material has been (circle one): <u>ACCEPTED</u> <input checked="" type="radio"/> <u>RECEIVED</u> <input type="radio"/> If denied, why? _____ |                      |                  |                              |
| NAME (PRINT) <u>Veronica Calderon</u>                                                                                                                                             | DATE <u>12/14/20</u> | TITLE <u>Rec</u> | SIGNATURE <u>V. Calderon</u> |

# CHEVRON MCBU

## Carlsbad, NM

|                                                                                                                               |                                                                                                                                                                                                                                      |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------|--|----------------|----------------------------------------------------------------------------------------------------|----------------|-------------------------|--|------------------------|--|
| NO #CAR-3426                                                                                                                  |                                                                                                                                                                                                                                      | NON-HAZARDOUS WASTE MANIFEST |                                                                                                         |  | 1. PAGE 1 OF 1 |                                                                                                    | 2. TRAILER NO. |                         |  |                        |  |
| GENERATOR'S<br>CERTIFICATION                                                                                                  | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b><br>PHONE NO. <b>575-887-5676</b>                                                                                                                                                          |                              | 4. ADDRESS<br><b>3150 E. GREENE ST.</b><br>CITY <b>CARLSBAD, NM</b> STATE <b>88220</b> ZIP <b>88220</b> |  |                | 5. PICK-UP DATE <b>12-14-2020</b>                                                                  |                |                         |  |                        |  |
|                                                                                                                               |                                                                                                                                                                                                                                      |                              |                                                                                                         |  |                | 6.                                                                                                 |                |                         |  |                        |  |
|                                                                                                                               | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:                                                                                                                                                                                             |                              |                                                                                                         |  |                | 8. CONTAINERS<br>No. Type                                                                          |                | 9. TOTAL QUANTITY       |  | 10. UNIT WT/Vol.       |  |
|                                                                                                                               | a. <b>Contaminated Dirt</b>                                                                                                                                                                                                          |                              |                                                                                                         |  |                | 1                                                                                                  |                | <b>Dump Truck</b>       |  | <b>20 Yds</b>          |  |
|                                                                                                                               | b. <b>Skeen 2H Skeen 2 26 27 Site 2H</b>                                                                                                                                                                                             |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | c. <b>API-30015410470001</b>                                                                                                                                                                                                         |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | d.                                                                                                                                                                                                                                   |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>Skeen 2H Remediation</b>                                                                                                                                                                 |                              |                                                                                                         |  |                |                                                                                                    |                | 13. WASTE PROFILE NO.   |  |                        |  |
|                                                                                                                               | 14. IN CASE OF EMERGENCY OR SPILL, CONTACT<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                                |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | 24-HOUR EMERGENCY NO. <b>575-887-5676</b>                                                                                                                                                                                            |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
| 15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above. |                                                                                                                                                                                                                                      |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
| TRANSPORTER'S                                                                                                                 | PRINTED TYPED NAME<br><b>Joe R Perez</b>                                                                                                                                                                                             |                              |                                                                                                         |  |                | SIGNATURE<br><i>Joe R Perez</i>                                                                    |                |                         |  |                        |  |
|                                                                                                                               |                                                                                                                                                                                                                                      |                              |                                                                                                         |  |                | DATE<br><b>12-14-2020</b>                                                                          |                |                         |  |                        |  |
|                                                                                                                               | 16. TRANSPORTER (1)<br>NAME <b>Enrique Acosta</b><br><b>432 2023057</b>                                                                                                                                                              |                              |                                                                                                         |  |                | 17. TRANSPORTER (2)<br>NAME                                                                        |                |                         |  |                        |  |
|                                                                                                                               | IN CASE OF EMERGENCY CONTACT: <b>Victor Leyre</b><br>EMERGENCY PHONE: <b>432-232-1580</b>                                                                                                                                            |                              |                                                                                                         |  |                | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                  |                |                         |  |                        |  |
| DISPOSAL                                                                                                                      | 18. TRANSPORTER (1): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME<br>SIGNATURE DATE                                                                                                                                   |                              |                                                                                                         |  |                | 19. TRANSPORTER (2): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME<br>SIGNATURE DATE |                |                         |  |                        |  |
|                                                                                                                               |                                                                                                                                                                                                                                      |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | ADDRESS:                                                                                                                                                                                                                             |                              |                                                                                                         |  |                | PHONE:                                                                                             |                |                         |  |                        |  |
|                                                                                                                               | PERMIT NO. <b>Reed Environmental Solutions - Reed Bluff</b><br><b>5053 US Highway 285</b>                                                                                                                                            |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
| DISPOSAL                                                                                                                      | 21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.<br><b>Orla, TX 79770 432-448-4230</b> |                              |                                                                                                         |  |                |                                                                                                    |                |                         |  |                        |  |
|                                                                                                                               | AUTHORIZED SIGNATURE<br><i>J. Calduen</i>                                                                                                                                                                                            |                              |                                                                                                         |  |                | CELL NO.                                                                                           |                | DATE<br><b>12/14/20</b> |  | TIME<br><b>3:24 PM</b> |  |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220



# CHEVRON MCBU

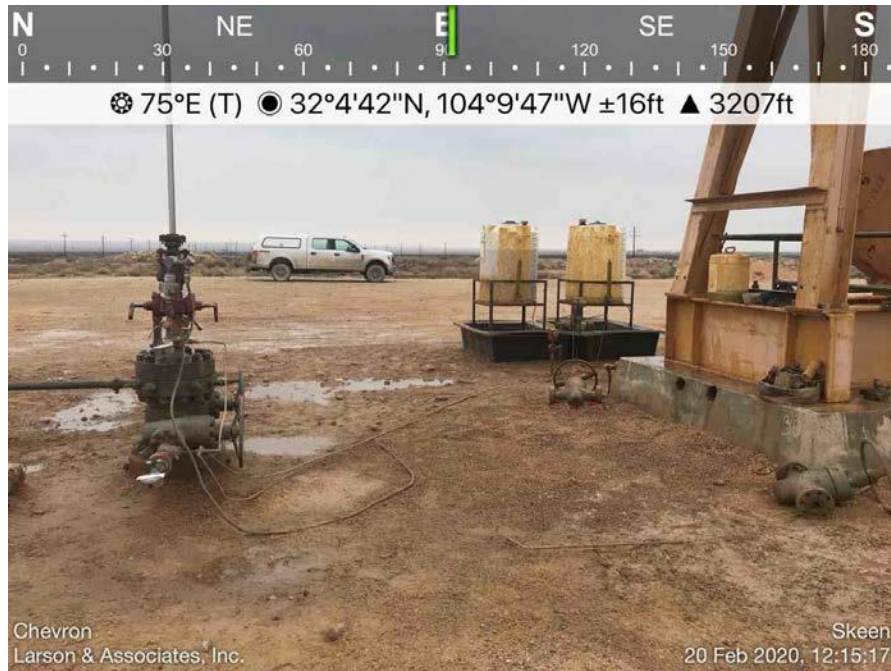
## Carlsbad, NM

|                                                                                                                      |                                                                                                                                                                                                |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------|------------------------|--|
| NO #CAR- <b>3426</b>                                                                                                 |                                                                                                                                                                                                | <b>NON-HAZARDOUS WASTE MANIFEST</b> |                                             |  | 1. PAGE <u>1</u> OF <u>1</u>                                                                                         |                                                                            | 2. TRAILER NO.                               |                        |  |
| <b>G<br/>E<br/>N<br/>E<br/>R<br/>A<br/>T<br/>O<br/>R</b>                                                             | 3. COMPANY NAME<br><b>CHEVRON CARLSBAD</b>                                                                                                                                                     |                                     | 4. ADDRESS<br><b>3150 E. GREENE ST.</b>     |  |                                                                                                                      | 5. PICK-UP DATE<br><b>12-14-2020</b>                                       |                                              |                        |  |
|                                                                                                                      | PHONE NO.<br><b>575-887-5676</b>                                                                                                                                                               |                                     | CITY STATE ZIP<br><b>CARLSBAD, NM 88220</b> |  |                                                                                                                      | 6.                                                                         |                                              |                        |  |
|                                                                                                                      | 7. NAME OR DESCRIPTION OF WASTE SHIPPED:                                                                                                                                                       |                                     |                                             |  | 8. CONTAINERS<br>No. Type                                                                                            |                                                                            | 9. TOTAL<br>QUANTITY                         | 10. UNIT<br>WT/Vol.    |  |
|                                                                                                                      | a. <b>Contaminated Dirt</b>                                                                                                                                                                    |                                     |                                             |  | 1 <b>Dump Truck</b>                                                                                                  |                                                                            | <b>20 YDS</b>                                |                        |  |
|                                                                                                                      | b. <b>SKREEN 2H</b> <i>Skreen 2 26 27</i>                                                                                                                                                      |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
| <b>E<br/>N<br/>V<br/>I<br/>R<br/>O<br/>N<br/>M<br/>E<br/>N<br/>T<br/>A<br/>L</b>                                     | c. <b>API-30015410470001</b>                                                                                                                                                                   |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
|                                                                                                                      | d.                                                                                                                                                                                             |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
|                                                                                                                      | 12. COMMENTS OR SPECIAL INSTRUCTIONS:<br><b>SKREEN 2H Remediation</b>                                                                                                                          |                                     |                                             |  |                                                                                                                      |                                                                            | 13. WASTE PROFILE NO.                        |                        |  |
| <b>T<br/>R<br/>A<br/>N<br/>S<br/>P<br/>O<br/>R<br/>T<br/>E<br/>R<br/>S</b>                                           | 14. IN CASE OF EMERGENCY OR SPILL, CONTACT<br><b>CHEVRON CARLSBAD</b>                                                                                                                          |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
|                                                                                                                      |                                                                                                                                                                                                |                                     |                                             |  |                                                                                                                      |                                                                            | 24-HOUR EMERGENCY NO.<br><b>575-887-5676</b> |                        |  |
|                                                                                                                      | 15. GENERATOR'S CERTIFICATION: Hereby declare that the contents of this consignment are fully and accurately described above.                                                                  |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N</b>                                                 | PRINTED TYPED NAME<br><b>JOE R Perez</b>                                                                                                                                                       |                                     |                                             |  | SIGNATURE<br><i>[Signature]</i>                                                                                      |                                                                            | DATE<br><b>12-14-2020</b>                    |                        |  |
|                                                                                                                      | 16. TRANSPORTER (1)<br>NAME <b>Enrique Acosta</b><br><i>432 202 3057</i>                                                                                                                       |                                     |                                             |  | 17. TRANSPORTER (2)<br>NAME                                                                                          |                                                                            |                                              |                        |  |
|                                                                                                                      | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE: <i>432 232 1570</i>                                                                                                                          |                                     |                                             |  | IN CASE OF EMERGENCY CONTACT:<br>EMERGENCY PHONE:                                                                    |                                                                            |                                              |                        |  |
|                                                                                                                      | 18. TRANSPORTER (1): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME _____<br>SIGNATURE _____ DATE _____                                                                           |                                     |                                             |  | 19. TRANSPORTER (2): Acknowledgment of receipt of material<br>PRINTED/TYPED NAME _____<br>SIGNATURE _____ DATE _____ |                                                                            |                                              |                        |  |
| <b>D<br/>I<br/>S<br/>P<br/>O<br/>S<br/>I<br/>T<br/>I<br/>O<br/>N<br/>F<br/>A<br/>C<br/>I<br/>L<br/>I<br/>T<br/>Y</b> | ADDRESS:<br><b>R360 Environmental Solutions - Red Bluff</b>                                                                                                                                    |                                     | PHONE:                                      |  |                                                                                                                      | PERMIT NO.                                                                 |                                              |                        |  |
|                                                                                                                      |                                                                                                                                                                                                |                                     |                                             |  |                                                                                                                      | 20. COMMENTS<br><b>5053 US Highway 285<br/>Orla, TX 79770 432-448-4230</b> |                                              |                        |  |
|                                                                                                                      | 21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. |                                     |                                             |  |                                                                                                                      |                                                                            |                                              |                        |  |
|                                                                                                                      | AUTHORIZED SIGNATURE<br><i>[Signature]</i>                                                                                                                                                     |                                     |                                             |  | CELL NO.                                                                                                             |                                                                            | DATE<br><b>12/14/20</b>                      |                        |  |
|                                                                                                                      |                                                                                                                                                                                                |                                     |                                             |  |                                                                                                                      |                                                                            |                                              | TIME<br><b>3:24 PM</b> |  |

Disposal Site: Please complete Disposal Facility section at bottom of form and  
mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

**Appendix C**  
**Photographs**





Impacted area viewing east, February 20, 2020



Impacted area viewing west, February 20, 2020

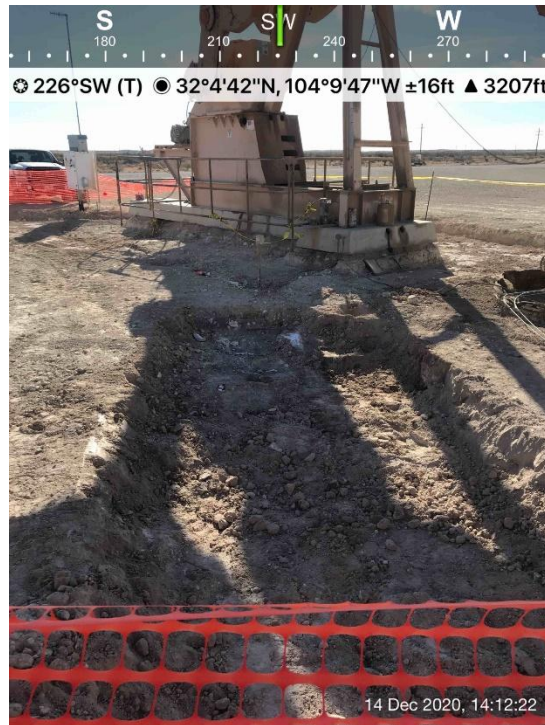


Impacted area viewing west/southwest, February 20, 2020



Excavated soil viewing north/northeast, December 14, 2020





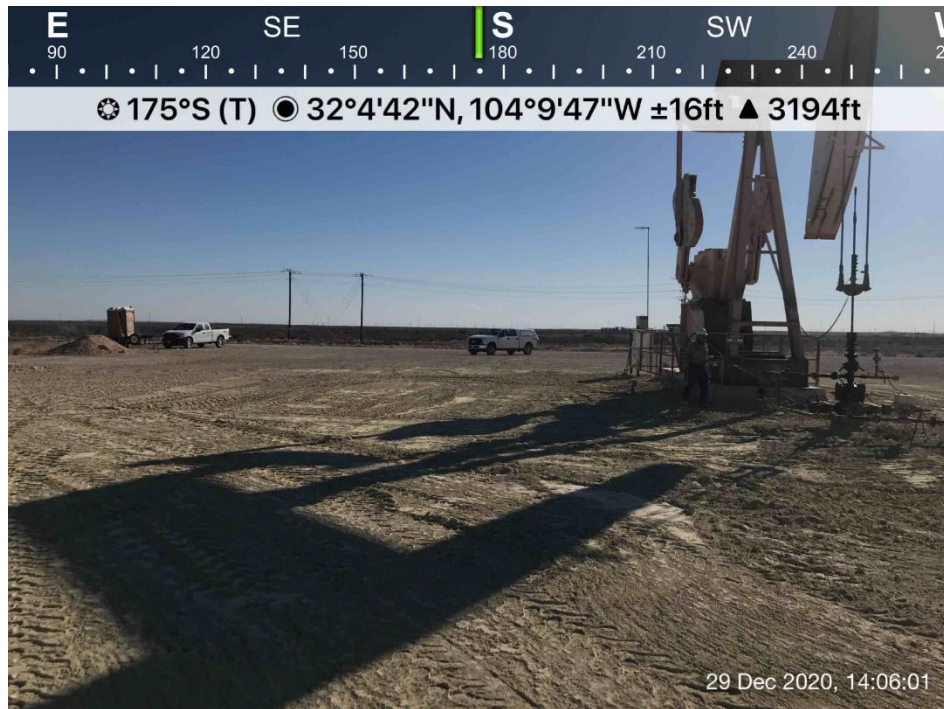
Additional 1 foot excavated from C-5 viewing southwest, December 14, 2020



Excavated soil viewing south, December 14, 2020



Backfilled excavation viewing south, December 29, 2020

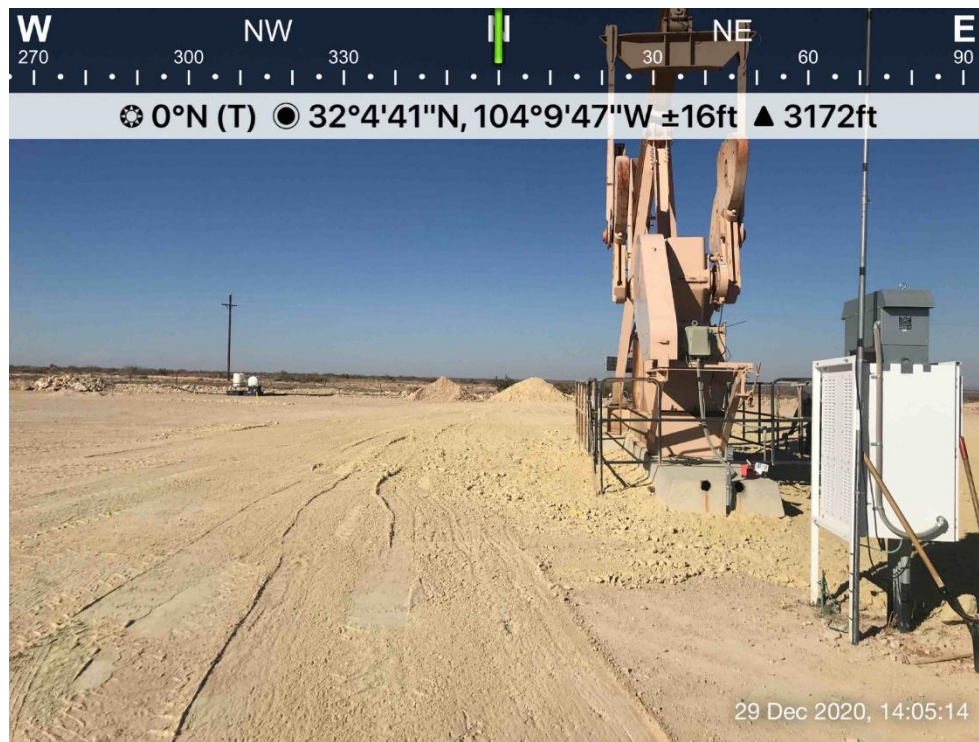


Backfilled excavation viewing south, December 29, 2020





Backfilled Excavation viewing west, December 29, 2020



Backfilled excavation viewing north, December 29, 2020