

|                |                          |
|----------------|--------------------------|
| Incident ID    | <del>MAC0613753668</del> |
| 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>&gt;104.5</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.

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

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

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

State of New Mexico  
Oil Conservation Division

NCE2026733719

Page 2 of 492

Page 4

|                |                           |
|----------------|---------------------------|
| Incident ID    | <del>NPAC0613753668</del> |
| District RP    |                           |
| Facility ID    |                           |
| Application ID |                           |

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

Printed Name: Amy Barnhill Title: Waste and Water Specialist  
Signature:  Date: 3/19/2020  
email: ABarnhill@chevron.com Telephone: 432-687-7108

**OCD Only**

Received by: Cristina Eads Date: 01/19/2021

|                |                          |
|----------------|--------------------------|
| Incident ID    | <del>NAC0613752668</del> |
| District RP    |                          |
| Facility ID    |                          |
| Application ID |                          |

## Remediation Plan

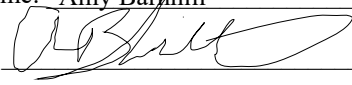
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

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

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

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

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

Printed Name: Amy Barnhill Title: Waste and Water Specialist  
Signature:  Date: 3/19/2020  
email: ABarnhill@chevron.com Telephone: 432-687-7108

**OCD Only**

Received by: Cristina Eads Date: 01/19/2021

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

Signature:  Date: 01/19/2021

**Tracking Number: nPAC0613753668**  
**Delineation Report and Remediation Plan**  
**Blinebry Satellite #1**  
**Crude Oil and Produced Water Release**  
**Lea County, New Mexico**

Latitude: N 32.36805°  
Longitude: W 103.08540°

LAI Project No. 19-0180-08

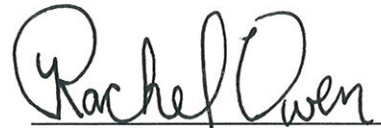
March 18, 2020

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

Prepared by:  
Larson & Associates, Inc.  
507 North Marienfeld Street, Suite 205  
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Mark J. Larson, P.G.  
Certified Professional Geologist #10490



Rachel E. Owen  
Sr. Geoscientist



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**Table of Contents**

|                                    |   |
|------------------------------------|---|
| 1.0 INTRODUCTION.....              | 1 |
| 1.1 Background.....                | 1 |
| 1.2 Physical Setting.....          | 1 |
| 1.3 Remediation Action Levels..... | 1 |
| 2.0 DELINEATION.....               | 2 |
| 3.0 REMEDIATION PLAN.....          | 2 |

**Tables**

|         |                                                 |
|---------|-------------------------------------------------|
| Table 1 | Delineation Soil Sample Analytical Data Summary |
|---------|-------------------------------------------------|

**Figures**

|          |                                              |
|----------|----------------------------------------------|
| Figure 1 | Topographic Map                              |
| Figure 2 | Aerial Map Showing Sample Locations          |
| Figure 3 | Aerial Map Showing Proposed Excavation Areas |

**Appendices**

|            |                           |
|------------|---------------------------|
| Appendix A | Chevron Spill Calculation |
| Appendix B | Laboratory Reports        |
| Appendix C | BH-1 Soil Log             |
| Appendix D | Photographs               |

nPAC0613753668

Delineation Report and Remediation Plan  
Chevron USA, Inc., Blinebry Sat. 1  
Crude Oil and Produced Water Release  
March 18, 2020

## 1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a crude oil and produced water release at the Blinebry Satellite #1 (Site) located in Unit C (NE/4, NW/4), Section 29, Township 22 South, Range 38 East in Lea County New Mexico. The geodetic position is North 32.36805° and West 103.08540°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

### 1.1 Background

The release was discovered on October 21, 2019. The spill occurred when a 3" polyline split due to external corrosion. Chevron reported that 4.78 barrels (bbls) of crude oil were released and approximately 2 bbls were recovered. Approximately 79.8 bbls of produced water were released and 10.99 bbls were recovered. The release resulted in two (2) spill areas. Appendix A presents the Chevron spill calculation. The initial C-141 was submitted to OCD District 1 on November 28, 2019 and assigned incident number nPAC0613753668.

### 1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,387 feet above mean sea level (msl);
- The surface topography gradually decreases to the southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Simona fine sandy loam, 0 to 3 percent slopes", consisting of 0 to 16 inches of a fine sandy loam followed by 16 to 26 inches of a cemented material (caliche);
- The geology is Eolian and piedmont deposits (Holocene to middle Pleistocene)- interlayered eolian sands and piedmont-slope deposits;
- Groundwater is greater than 104.5 feet below ground surface (bgs) based on a dry temporary monitor well installed on March 2, 2020 that was gauged with an electronic water level meter 48 hours later. Appendix C presents the soil boring log.

### 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 2,500 mg/Kg
- Chloride 20,000 mg/Kg

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

## 2.0 DELINEATION

On December 13 and 16, 2019, LAI personnel used a stainless steel hand auger to collect soil samples from thirty (30) locations from the first spill area (SP-1 through SP-30) and thirteen (13) locations from the

nPAC0613753668

Delineation Report and Remediation Plan  
Chevron USA, Inc., Blinbry Sat. 1  
Crude Oil and Produced Water Release  
March 18, 2020

second spill area (SP-31 through SP-43) inside and outside of the spill in each cardinal direction of the spill to vertically and horizontally delineate the release. The samples were collected to approximately 1 feet bgs. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) 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 reported below the remediation action levels of 10 milligrams per kilogram (mg/Kg) in all samples. BTEX reported above the delineation limit of 50 mg/Kg in the following samples:

|                              |                              |
|------------------------------|------------------------------|
| S-2, 0 to 0.5' - 118 mg/Kg   | S-3, 0 to 0.5' - 101 mg/Kg   |
| S-4, 0 to 0.5' - 197 mg/Kg   | S-6, 0 to 0.5' - 56 mg/Kg    |
| S-8, 0 to 0.5' - 88.4 mg/Kg  | S-9, 0 to 0.5' - 81.2 mg/Kg  |
| S-10, 0 to 0.5' - 153 mg/Kg  | S-12, 0 to 0.5' - 74.7 mg/Kg |
| S-13, 0 to 0.5' - 163 mg/Kg  | S-14, 0 to 0.5' - 389 mg/Kg  |
| S-15, 0 to 0.5' - 64.8 mg/Kg | S-16, 0 to 0.5' - 76.2 mg/Kg |
| S-17, 0 to 0.5' - 127 mg/Kg  | S-25, 0 to 0.5' - 53.2 mg/Kg |
| S-26, 0 to 0.5' - 125 mg/Kg  | S-27, 0 to 0.5' - 126 mg/Kg  |
| S-31, 0 to 0.5' - 83.7 mg/Kg |                              |

TPH reported above the delineation limit of 100 mg/Kg the following samples:

|                                |                                |
|--------------------------------|--------------------------------|
| S-2, 0 to 0.5' - 44,500 mg/Kg  | S-3, 0 to 0.5' - 26,500 mg/Kg  |
| S-4, 0 to 0.5' - 27,900 mg/Kg  | S-6, 0 to 0.5' - 37,100 mg/Kg  |
| S-8, 0 to 0.5' - 42,900 mg/Kg  | S-9, 0 to 0.5' - 29,100 mg/Kg  |
| S-10, 0 to 0.5' - 37,600 mg/Kg | S-11, 0 to 0.5' - 26,400 mg/Kg |
| S-12, 0 to 0.5' - 22,700 mg/Kg | S-13, 0 to 0.5' - 47,800 mg/Kg |
| S-14, 0 to 0.5' - 51,500 mg/Kg | S-15, 0 to 0.5' - 25,800 mg/Kg |
| S-16, 0 to 0.5' - 21,300 mg/Kg | S-17, 0 to 0.5' - 29,300 mg/Kg |
| S-19, 0 to 0.5' - 23,100 mg/Kg | S-20, 0 to 0.5' - 33,000 mg/Kg |
| S-21, 0 to 0.5' - 44,600 mg/Kg | S-22, 0 to 0.5' - 39,900 mg/Kg |
| S-23, 0 to 0.5' - 35,900 mg/Kg | S-25, 0 to 0.5' - 45,100 mg/Kg |
| S-26, 0 to 0.5' - 47,800 mg/Kg | S-27, 0 to 0.5' - 46,800 mg/Kg |
| S-28, 0 to 0.5' - 41,500 mg/Kg | S-31, 0 to 0.5' - 43,600 mg/Kg |
| S-32, 0 to 0.5' - 46,300 mg/Kg | S-33, 0 to 0.5' - 19,500 mg/Kg |
| S-34, 0 to 0.5' - 25,100 mg/Kg | S-35, 0 to 0.5' - 18,200 mg/Kg |
| S-36, 0 to 0.5' - 27,600 mg/Kg | S-38, 0 to 0.5' - 27,900 mg/Kg |
| S-39, 0 to 0.5' - 27,800 mg/Kg | S-41, 0 to 0.5' - 1,110 mg/Kg  |

Chloride exceeded the delineation limit of 600 mg/Kg in the following samples:

|                               |                               |
|-------------------------------|-------------------------------|
| S-3, 0 to 0.5' - 5,430 mg/Kg  | S-4, 0 to 0.5' - 2,960 mg/Kg  |
| S-6, 0 to 0.5' - 3,720 mg/Kg  | S-8, 0 to 0.5' - 6,010 mg/Kg  |
| S-9, 0 to 0.5' - 5,080 mg/Kg  | S-10, 0 to 0.5' - 3,350 mg/Kg |
| S-11, 0 to 0.5' - 2,570 mg/Kg | S-12, 0 to 0.5' - 3,200 mg/Kg |
| S-13, 0 to 0.5' - 1,850 mg/Kg | S-14, 0 to 0.5' - 1,240 mg/Kg |

nPAC0613753668

Delineation Report and Remediation Plan  
Chevron USA, Inc., Blinberry Sat. 1  
Crude Oil and Produced Water Release  
March 18, 2020

|                                |                               |
|--------------------------------|-------------------------------|
| S-16, 0 to 0.5' – 3,890 mg/ Kg | S-17, 0 to 0.5' – 3,320 mg/Kg |
| S-19, 0 to 0.5' – 3,270 mg/Kg  | S-20, 0 to 0.5' – 2,750 mg/Kg |
| S-21, 0 to 0.5' – 3,190 mg/Kg  | S-25, 0 to 0.5' – 2,950 mg/Kg |
| S-28, 0 to 0.5' – 1,160 mg/Kg  | S-31, 0 to 0.5' – 729 mg/Kg   |
| S-32, 0 to 0.5' – 1,360 mg/Kg  | S-34, 0 to 0.5' – 1,000 mg/Kg |
| S-35, 0 to 0.5' – 4,180 mg/Kg  | S-38, 0 to 0.5' – 1,820 mg/Kg |
| S-39, 0 to 0.5' – 1,260 mg/Kg  | S-41, 0 to 0.5' – 2,560 mg/Kg |

From January 22 to January 29, 2020, LAI personnel used direct push technology (DPT) to further delineate the release. Soil samples were collected at 1, 3, 5 and 10 feet bgs. 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.

BTEX reported above the delineation limit in the following samples:

|                       |                       |
|-----------------------|-----------------------|
| S-2, 1' - 1,100 mg/Kg | S-3, 1' - 137 mg/Kg   |
| S-6, 1' - 110 mg/Kg   | S-8, 1' - 84.5 mg/Kg  |
| S-9, 1' - 116 mg/Kg   | S-9, 3' - 235 mg/Kg   |
| S-11, 1' - 350 mg/Kg  | S-13, 1' - 117 mg/Kg  |
| S-14, 1' - 339 mg/Kg  | S-15, 1' - 82.5 mg/Kg |
| S-17, 1' - 65.9 mg/Kg | S-20, 1' - 93.3 mg/Kg |
| S-25, 1' - 85.7 mg/Kg | S-27, 1' - 54.2 mg/Kg |

TPH reported above the delineation limit in the following samples:

|                         |                         |
|-------------------------|-------------------------|
| S-2, 1' - 24,300 mg/Kg  | S-3, 1' - 21,700 mg/Kg  |
| S-4, 1' - 11,500 mg/Kg  | S-6, 1' - 17,900 mg/Kg  |
| S-6, 3' - 589 mg/Kg     | S-8, 1' - 19,000 mg/Kg  |
| S-9, 1' - 13,500 mg/Kg  | S-9, 3' - 11,300 mg/Kg  |
| S-10, 1' - 8,610 mg/Kg  | S-11, 1' - 31,600 mg/Kg |
| S-13, 1' - 24,500 mg/Kg | S-14, 1' - 32,800 mg/Kg |
| S-14, 3' - 120 mg/Kg    | S-15, 1' - 32,800 mg/Kg |
| S-16, 1' - 5,120 mg/Kg  | S-17, 1' - 18,900 mg/Kg |
| S-19, 1' - 9,490 mg/Kg  | S-20, 1' - 18,900 mg/Kg |
| S-21, 1' - 15,300 mg/Kg | S-22, 1' - 12,500 mg/Kg |
| S-23, 1' - 5,000 mg/Kg  | S-25, 1' - 10,800 mg/Kg |
| S-25, 3' - 38,200 mg/Kg | S-26, 1' - 14,600 mg/Kg |
| S-27, 1' - 24,100 mg/Kg | S-27, 3' - 141 mg/Kg    |
| S-28, 1' - 9,300 mg/Kg  | S-31, 1' - 24,400 mg/Kg |
| S-31, 3' - 6,140 mg/Kg  | S-32, 1' - 18,200 mg/Kg |
| S-32, 3' - 549 mg/Kg    | S-33, 1' - 3,230 mg/Kg  |
| S-34, 1' - 3,060 mg/Kg  | S-36, 1' - 8,300 mg/Kg  |
| S-38, 1' - 17,500 mg/Kg | S-38, 3' - 167 mg/Kg    |
| S-41, 1' - 8,910 mg/Kg  |                         |

nPAC0613753668  
Delineation Report and Remediation Plan  
Chevron USA, Inc., Blinberry Sat. 1  
Crude Oil and Produced Water Release  
March 18, 2020

Chloride exceeded the delineation limit in the following samples:

|                        |                        |
|------------------------|------------------------|
| S-3, 1' - 5,500 mg/Kg  | S-3, 3' - 6,920 mg/Kg  |
| S-4, 1' - 3,280 mg/Kg  | S-4, 3' - 4,750 mg/Kg  |
| S-6, 1' - 3,330 mg/Kg  | S-8, 1' - 5,960 mg/Kg  |
| S-9, 1' - 7,570 mg/Kg  | S-9, 3' - 1,520 mg/Kg  |
| S-10, 1' - 2,810 mg/Kg | S-19, 1' - 1,350 mg/Kg |
| S-21, 1' - 850 mg/Kg   | S-31, 1' - 1,780 mg/Kg |
| S-32, 1' - 2,070 mg/Kg | S-36, 1' - 989 mg/Kg   |
| S-38, 1' - 1,040 mg/Kg | S-41, 1' - 1,450 mg/Kg |

BTEX, TPH, and chloride were delineated below the delineation limit of 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg at all sample locations, respectively. Table 1 presents the soil sample analytical data summary. Appendix B presents the laboratory reports.

### 3.0 Remediation Plan

Chevron proposes the following remedial actions:

- Excavate soil from an area measuring approximately 4,729 square feet, encompassing S-2, S-3, S-4, S-6, S-8, and S-9 to 4.1 feet bgs;
- Excavate soil from an area measuring approximately 9,317 square feet, encompassing, S-10, S-11, S-12, S-13, S-14, S-15, S-16, S-17, S-19, S-20, S-21, and S-22 to 2 feet bgs;
- Excavate soil from an area measuring approximately 3,094 square feet, encompassing S-23, S-24, S-26, S-27, and S-28 to 4.1 feet bgs;
- Excavate soil from an area measuring approximately 1,578 square feet, encompassing, S-31 and S-32 to 4.1 feet bgs;
- Excavate soil from an area measuring approximately 2,416 square feet encompassing S-33, S-34, and S-35 to 2 feet bgs;
- Excavate soil from an area measuring approximately 2,523 square feet encompassing S-36, S-38, and S-41 to 4.1 feet bgs;
- Excavate soil from an area measuring approximately 2,059 square feet encompassing S-39 to 2 feet bgs;
- Collect five (5) point composite bottom and sidewall confirmation soil samples every 200 square feet and analyze for BTEX, TPH and chloride;
- Confirm backfill soil is below the OCD limits for clean backfill by laboratory analysis of soil samples;
- Backfill excavations with clean topsoil in pasture assuming achievement of OCD remediation levels;
- Seed the pasture area with BLM Mix No. 3; and
- Prepare report with photographs for submittal to OCD District 1.

Figure 3 presents the proposed excavation areas.

## **Tables**

**Table 1**  
**Delineation Soil Sample Analytical Data Summary**  
**Chevron USA, Blinberry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 1 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg)   | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg)   | Chloride (mg/Kg) |                     |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|--------------------|-------------------|-------------------|---------------|------------------|---------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    | <b>100 / 2,500</b> |                   |                   |               |                  | <b>600 / 10,000</b> |
| <b>S-1</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00202        | <0.00202     | <50.0              | <50.0             | <50.0             | <50.0         | <4.97            |                     |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00202        | <0.00202     | <49.9              | <49.9             | <49.9             | <49.9         | <4.97            |                     |
| <b>S-2</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 1.42            | <b>118</b>   | 7,670              | 33,900            | 2,910             | <b>44,500</b> | 304              |                     |
|                           | 1            | 1/28/2020       | In-Situ | 10.7            | <b>1,100</b> | 6,380              | 16,000            | 1,930             | <b>24,300</b> | 479              |                     |
|                           | 3            | 1/28/2020       | In-Situ | <0.0200         | 0.0297       | <49.8              | 77.0              | <49.8             | 77.0          | 32.0             |                     |
|                           | 5            | 1/28/2020       | In-Situ | <0.00202        | <0.00202     | <50.0              | <50.0             | <50.0             | <50.0         | <4.97            |                     |
|                           | 10           | 1/28/2020       | In-Situ | <0.0199         | <0.0199      | <50.0              | <50.0             | <50.0             | <50.0         | 80.2             |                     |
| <b>S-3</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 1.27            | <b>101</b>   | 5790               | 19000             | 1700              | <b>26500</b>  | <b>5,430</b>     |                     |
|                           | 1            | 1/22/2020       | In-Situ | 1.60            | <b>137</b>   | 4,140              | 15,900            | 1,680             | <b>21,700</b> | <b>5,500</b>     |                     |
|                           | 3            | 1/22/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | 75.8              | <50.0             | 75.8          | <b>6,920</b>     |                     |
|                           | 5            | 1/22/2020       | In-Situ | <0.0199         | <0.0199      | <49.9              | 173               | 58.5              | 232           | 141              |                     |
|                           | 10           | 1/22/2020       | In-Situ | <0.0201         | <0.0201      | <50.0              | <50.0             | <50.0             | <50.0         | 91.8             |                     |
| <b>S-4</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 2.69            | <b>197</b>   | 3,700              | 22,200            | 1,980             | <b>27,900</b> | <b>2,960</b>     |                     |
|                           | 1            | 1/28/2020       | In-Situ | <0.0250         | 13.9         | 1,530              | 8,930             | 1,060             | <b>11,500</b> | <b>3,280</b>     |                     |
|                           | 3            | 1/28/2020       | In-Situ | 0.00245         | 0.0380       | <49.9              | <49.9             | <49.9             | <49.9         | <b>4,750</b>     |                     |
|                           | 5            | 1/28/2020       | In-Situ | <0.0200         | <0.0200      | <49.9              | <49.9             | <49.9             | <49.9         | 108              |                     |
|                           | 10           | 1/28/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | <50.0             | <50.0             | <50.0         | 125              |                     |
| <b>S-5</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00200        | <0.00200     | <49.9              | <49.9             | <49.9             | <49.9         | <5.01            |                     |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00199        | <0.00199     | <50.0              | <50.0             | <50.0             | <50.0         | <4.96            |                     |
| <b>S-6</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 0.676           | <b>56.0</b>  | 4,440              | 29,800            | 2,820             | <b>37,100</b> | <b>3,720</b>     |                     |
|                           | 1            | 1/22/2020       | In-Situ | 1.13            | <b>110.0</b> | 4,110              | 12,500            | 1,280             | <b>17,900</b> | <b>3,330</b>     |                     |
|                           | 3            | 1/22/2020       | In-Situ | <0.0198         | 3.38         | 95                 | 437               | 57                | <b>589</b>    | 404              |                     |
|                           | 5            | 1/22/2020       | In-Situ | <0.00200        | 0.118        | <49.8              | <49.8             | <49.8             | <49.8         | 48.3             |                     |
|                           | 10           | 1/22/2020       | In-Situ | <0.0199         | <0.0199      | <49.9              | <49.9             | <49.9             | <49.9         |                  |                     |
| <b>S-7</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0             | <50.0             | <50.0         | <4.99            |                     |



**Table 1**  
**Delineation Soil Sample Analytical Data Summary**  
**Chevron USA, Blinberry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 2 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg)   | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg)   | Chloride (mg/Kg)    |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|--------------------|-------------------|-------------------|---------------|---------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    | <b>100 / 2,500</b> |                   |                   |               | <b>600 / 10,000</b> |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00198        | <0.00198     | <50.0              | <50.0             | <50.0             | <50.0         | <5.00               |
| <b>S-8</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 4.84            | <b>88.4</b>  | 7,900              | 32,300            | 2,730             | <b>42,900</b> | <b>6,010</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 1.56            | <b>84.5</b>  | 2,910              | 14,500            | 1,560             | <b>19,000</b> | <b>5,960</b>        |
|                           | 3            | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <50.0              | <50.0             | <50.0             | <50.0         | 793                 |
|                           | 5            | 1/23/2020       | In-Situ | <0.0200         | 0.0980       | <49.9              | <49.9             | <49.9             | <49.9         | 31.2                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0199         | <0.0199      | <50.0              | <50.0             | <50.0             | <50.0         | 113                 |
| <b>S-9</b>                | 0 - 0.5      | 12/13/2019      | In-Situ | 2.06            | <b>81.2</b>  | 6,250              | 20,900            | 1,910             | <b>29,100</b> | <b>5,080</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 1.30            | <b>116</b>   | 3,720              | 8,940             | 854               | <b>13,500</b> | <b>7,570</b>        |
|                           | 3            | 1/23/2020       | In-Situ | 4.81            | <b>235</b>   | 3,950              | 6,710             | 608               | <b>11,300</b> | <b>1,520</b>        |
|                           | 5            | 1/23/2020       | In-Situ | <0.0202         | <0.0202      | <50.0              | <50.0             | <50.0             | <50.0         | 26.8                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <49.9              | <49.9             | <49.9             | <49.9         | 38.6                |
| <b>S-10</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 5.25            | <b>153</b>   | 7,990              | 27,200            | 2,410             | <b>37,600</b> | <b>3,350</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 0.743           | 72.6         | 1,720              | 6,260             | 634               | <b>8,610</b>  | <b>2,810</b>        |
|                           | 3            | 1/23/2020       | In-Situ | <0.0200         | 0.0579       | <50.0              | <50.0             | <50.0             | <50.0         | 13.3                |
|                           | 5            | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <50.0              | <50.0             | <50.0             | <50.0         | 10.0                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <49.9              | <49.9             | <49.9             | <49.9         | 26.8                |
| <b>S-11</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 0.738           | 27.8         | 4,170              | 20,400            | 1,820             | <b>26,400</b> | <b>2,570</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 8.81            | <b>350</b>   | 7,650              | 22,100            | 1,890             | <b>31,600</b> | 380                 |
|                           | 3            | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | <50.0             | <50.0             | <50.0         | 25.2                |
|                           | 5            | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | <50.0             | <50.0             | <50.0         | <4.98               |
|                           | 10           | 1/23/2020       | In-Situ | <0.0199         | <0.0199      | <50.0              | <50.0             | <50.0             | <50.0         | 6.11                |
| <b>S-12</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 2.07            | <b>74.7</b>  | 3,190              | 17,900            | 1,650             | <b>22,700</b> | <b>3,200</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 0.249           | 13.2         | 922                | 2,250             | 257               | 3,430         | 80.6                |
|                           | 3            | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <50.0              | <50.0             | <50.0             | <50.0         | <5.00               |
|                           | 5            | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <49.9              | <49.9             | <49.9             | <49.9         | 5.68                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | <50.0             | <50.0             | <50.0         | 73.1                |
| <b>S-13</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 4.64            | <b>163</b>   | 9,760              | 35,000            | 2,990             | <b>47,800</b> | <b>1,850</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 3.18            | <b>117</b>   | 3,670              | 18,600            | 2,240             | <b>24,500</b> | 237                 |

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**Chevron USA, Blinbry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 3 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg)   | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg)   | Chloride (mg/Kg)    |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|--------------------|-------------------|-------------------|---------------|---------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    | <b>100 / 2,500</b> |                   |                   |               | <b>600 / 10,000</b> |
|                           | 3            | 1/23/2020       | In-Situ | <0.0200         | 0.0621       | <50.0              | 109               | <50.0             | 109           | 8.47                |
|                           | 5            | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <50.0              | <50.0             | <50.0             | <50.0         | 7.85                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <49.9              | <49.9             | <49.9             | <49.9         | 48.3                |
| <b>S-14</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 5.80            | <b>389</b>   | 10,800             | 37,500            | 3,240             | <b>51,500</b> | <b>1,240</b>        |
|                           | 1            | 1/23/2020       | In-Situ | 5.38            | <b>339</b>   | 6,200              | 24,100            | 2,470             | <b>32,800</b> | 566                 |
|                           | 3            | 1/23/2020       | In-Situ | <0.0199         | 0.135        | <50.0              | 120               | <50.0             | <b>120</b>    | 17.2                |
|                           | 5            | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <50.0              | <50.0             | <50.0             | <50.0         | 12.9                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0199         | <0.0199      | <49.8              | <49.8             | <49.8             | <49.8         | 53.2                |
| <b>S-15</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 2.02            | <b>64.8</b>  | 2,960              | 20,800            | 2,010             | <b>25,800</b> | 424                 |
|                           | 1            | 1/23/2020       | In-Situ | 1.17            | <b>82.5</b>  | 2,180              | 14,300            | 1,420             | <b>17,900</b> | 198                 |
|                           | 3            | 1/23/2020       | In-Situ | <0.0198         | <0.0198      | <50.0              | <50.0             | <50.0             | <50.0         | <5.02               |
|                           | 5            | 1/23/2020       | In-Situ | <0.0200         | <0.0200      | <49.9              | <49.9             | <49.9             | <49.9         | 51.7                |
|                           | 10           | 1/23/2020       | In-Situ | <0.0199         | <0.0199      | <50.0              | <50.0             | <50.0             | <50.0         | 34.6                |
| <b>S-16</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 1.86            | <b>76.2</b>  | 2,770              | 16,900            | 1,600             | <b>21,300</b> | <b>3,890</b>        |
|                           | 1            | 1/24/2020       | In-Situ | <0.0202         | 8.35         | 733                | 4,030             | 355               | <b>5,120</b>  | 188                 |
|                           | 3            | 1/24/2020       | In-Situ | <0.00201        | 0.0034       | <50.0              | <50.0             | <50.0             | <50.0         | <5.00               |
|                           | 5            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0             | <50.0             | <50.0         | 36.8                |
|                           | 10           | 1/24/2020       | In-Situ | <0.00202        | <0.00202     | <49.9              | <49.9             | <49.9             | <49.9         | 27.4                |
| <b>S-17</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 6.26            | <b>127</b>   | 4,460              | 22,900            | 1,960             | <b>29,300</b> | <b>3,320</b>        |
|                           | 1            | 1/24/2020       | In-Situ | 0.423           | <b>65.9</b>  | 2,760              | 14,800            | 1,340             | <b>18,900</b> | 242                 |
|                           | 3            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0             | <50.0             | <50.0         | <5.00               |
|                           | 5            | 1/24/2020       | In-Situ | <0.00198        | <0.00198     | <50.0              | <50.0             | <50.0             | <50.0         | <5.05               |
|                           | 7            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0             | <50.0             | <50.0         | 12.0                |
| <b>S-18</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00201        | <0.00201     | <50.0              | <50.0             | <50.0             | <50.0         | <4.97               |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00201        | <0.00201     | <50.0              | <50.0             | <50.0             | <50.0         | <4.96               |
| <b>S-19</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.2000         | 0.9840       | 2,740              | 18,800            | 1,530             | <b>23,100</b> | <b>3,270</b>        |
|                           | 1            | 1/24/2020       | In-Situ | 0.134           | 26.70        | 1,410              | 7,410             | 669               | <b>9,490</b>  | <b>1,350</b>        |
|                           | 3            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | 84.8              | <50.0             | 84.8          | 10.8                |

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**Chevron USA, Blinberry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 4 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg)   | C12 - C28 (mg/Kg)   | C28 - C35 (mg/Kg) | TPH (mg/Kg)   | Chloride (mg/Kg) |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|--------------------|---------------------|-------------------|---------------|------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    | <b>100 / 2,500</b> | <b>600 / 10,000</b> |                   |               |                  |
|                           | 5            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0               | <50.0             | <50.0         | <4.96            |
|                           | 10           | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <49.8              | <49.8               | <49.8             | <49.8         | <4.99            |
| <b>S-20</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.2000         | <0.2000      | 2,010              | 28,500              | 2,470             | <b>33,000</b> | <b>2,750</b>     |
|                           | 1            | 1/24/2020       | In-Situ | 1.94            | <b>93.3</b>  | 2,410              | 15,100              | 1,350             | <b>18,900</b> | 480              |
|                           | 3            | 1/24/2020       | In-Situ | <0.00198        | <0.00198     | <50.0              | 90.2                | <50.0             | 90.2          | <5.05            |
|                           | 5            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0               | <50.0             | <50.0         | <5.05            |
|                           | 10           | 1/24/2020       | In-Situ | <0.0400         | <0.00400     | <50.0              | <50.0               | <50.0             | <50.0         | <5.00            |
| <b>S-21</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.0996         | 1.21         | 3,410              | 38,000              | 3,210             | <b>44,600</b> | <b>3,190</b>     |
|                           | 1            | 1/24/2020       | In-Situ | 0.00258         | 0.899        | 1,330              | 12,600              | 1,380             | <b>15,300</b> | <b>850</b>       |
|                           | 3            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <49.8              | <49.8               | <49.8             | <49.8         | 5.47             |
|                           | 5            | 1/24/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0               | <50.0             | <50.0         | <5.00            |
| <b>S-22</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 0.0143          | 1.58         | 3,070              | 33,900              | 2,960             | <b>39,900</b> | 70.9             |
|                           | 1            | 1/24/2020       | In-Situ | <0.0833         | 20.6         | 1,100              | 10,500              | 925               | <b>12,500</b> | 53.4             |
|                           | 3            | 1/24/2020       | In-Situ | <0.00200        | 0.0124       | <50.0              | 50.7                | <50.0             | 50.7          | 16.8             |
|                           | 5            | 1/24/2020       | In-Situ | <0.00199        | <0.00199     | <50.0              | <50.0               | <50.0             | <50.0         | 8.80             |
|                           | 10           | 1/24/2020       | In-Situ | <0.00199        | <0.00199     | <49.9              | <49.9               | <49.9             | <49.9         | 18.6             |
| <b>S-23</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.0994         | 0.911        | 2,180              | 31,000              | 2,740             | <b>35,900</b> | 523              |
|                           | 1            | 1/27/2020       | In-Situ | 0.0301          | 8.18         | 352                | 4,240               | 412               | <b>5,000</b>  | 36.7             |
|                           | 3            | 1/27/2020       | In-Situ | <0.00200        | <0.00200     | <49.9              | <49.9               | <49.9             | <49.9         | 10.2             |
|                           | 5            | 1/27/2020       | In-Situ | <0.00200        | <0.00200     | <50.0              | <50.0               | <50.0             | <50.0         | 9.96             |
|                           | 10           | 1/27/2020       | In-Situ | <0.00200        | <0.00200     | <49.9              | <49.9               | <49.9             | <49.9         | 19.1             |
| <b>S-24</b>               | 0.5          | 12/13/2019      | In-Situ | <0.00199        | <0.00199     | <49.9              | <49.9               | <49.9             | <49.9         | <4.96            |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00199        | <0.00199     | <50.0              | <50.0               | <50.0             | <50.0         | <5.00            |
| <b>S-25</b>               | 0.5          | 12/13/2019      | In-Situ | 0.343           | <b>53.2</b>  | 2,990              | 38,900              | 3,250             | <b>45,100</b> | <b>2,950</b>     |
|                           | 1            | 1/27/2020       | In-Situ | 0.182           | <b>85.7</b>  | 1,210              | 8,800               | 775               | <b>10,800</b> | 23.1             |
|                           | 3            | 1/27/2020       | In-Situ | <0.0501         | 34.0         | 1,560              | 33,400              | 3,230             | <b>38,200</b> | 72.1             |
|                           | 5            | 1/27/2020       | In-Situ | <0.00199        | <0.00199     | <49.9              | 193                 | <49.9             | 193           | 11.2             |
|                           | 10           | 1/27/2020       | In-Situ | <0.00200        | <0.00200     | <49.8              | <49.8               | <49.8             | <49.8         | 8.96             |

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**Chevron USA, Blinbry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 5 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg) | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg)        | Chloride (mg/Kg)    |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|------------------|-------------------|-------------------|--------------------|---------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    |                  |                   |                   | <b>100 / 2,500</b> | <b>600 / 10,000</b> |
| <b>S-26</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 0.72            | <b>125</b>   | 4,690            | 39,800            | 3,340             | <b>47,800</b>      | 190                 |
|                           | 1            | 1/27/2020       | In-Situ | <0.0499         | 15.1         | 1,260            | 12,300            | 1,060             | <b>14,600</b>      | 21.3                |
|                           | 3            | 1/27/2020       | In-Situ | <0.00201        | <0.00201     | <50.0            | <50.0             | <50.0             | <50.0              | 14.5                |
|                           | 5            | 1/27/2020       | In-Situ | <0.00202        | <0.00202     | <49.8            | <49.8             | <49.8             | <49.8              | 12.1                |
|                           | 10           | 1/27/2020       | In-Situ | <0.00202        | <0.00202     | <49.9            | <49.9             | <49.9             | <49.9              | 57.0                |
| <b>S-27</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 1.03            | <b>126</b>   | 4,650            | 38,800            | 3,380             | <b>46,800</b>      | 529                 |
|                           | 1            | 1/27/2020       | In-Situ | 0.0642          | <b>54.2</b>  | 2,160            | 20,100            | 1,880             | <b>24,100</b>      | 82.9                |
|                           | 3            | 1/27/2020       | In-Situ | <0.00201        | <0.00201     | <50.0            | 141               | <50.0             | <b>141</b>         | 15.2                |
|                           | 5            | 1/27/2020       | In-Situ | <0.00198        | <0.00198     | <49.9            | <49.9             | <49.9             | <49.9              | 45.7                |
|                           | 10           | 1/27/2020       | In-Situ | <0.00200        | <0.00200     | <50.0            | <50.0             | <50.0             | <50.0              | 130                 |
| <b>S-28</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | 0.639           | 46.7         | 2,540            | 35,600            | 3,340             | <b>41,500</b>      | <b>1,160</b>        |
|                           | 1            | 1/27/2020       | In-Situ | <0.0500         | 10.8         | 511              | 7,910             | 908               | <b>9,330</b>       | 63.7                |
|                           | 3            | 1/27/2020       | In-Situ | <0.00199        | <0.00199     | <49.9            | 58.8              | <49.9             | 58.8               | <4.98               |
|                           | 5            | 1/27/2020       | In-Situ | <0.00201        | <0.00201     | <49.8            | <49.8             | <49.8             | <49.8              | <4.99               |
|                           | 10           | 1/27/2020       | In-Situ | <0.00202        | <0.00202     | <50.0            | <50.0             | <50.0             | <50.0              | <4.98               |
| <b>S-29</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00198        | <0.00198     | <49.9            | <49.9             | <49.9             | <49.9              | <4.98               |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00200        | <0.00200     | <50.0            | <50.0             | <50.0             | <50.0              | <5.01               |
| <b>S-30</b>               | 0 - 0.5      | 12/13/2019      | In-Situ | <0.00200        | <0.00200     | <49.9            | <49.9             | <49.9             | <49.9              | <5.00               |
|                           | 0.5 - 1      | 12/13/2019      | In-Situ | <0.00200        | <0.00200     | <49.8            | <49.8             | <49.8             | <49.8              | <5.05               |
| <b>S-31</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | 0.1690          | <b>83.7</b>  | 3,930            | 41,200            | 3,440             | <b>48,600</b>      | <b>729</b>          |
|                           | 1            | 1/28/2020       | In-Situ | 0.0257          | 39.8         | 2,080            | 19,900            | 2,460             | <b>24,400</b>      | <b>1,780</b>        |
|                           | 3            | 1/28/2020       | In-Situ | <0.0201         | 24.7         | 971              | 4,640             | 525               | <b>6,140</b>       | 165                 |
|                           | 5            | 1/28/2020       | In-Situ | <0.0202         | <0.0202      | <50.0            | <50.0             | <50.0             | <50.0              | 6.34                |
|                           | 10           | 1/28/2020       | In-Situ | <0.00200        | <0.00200     | <49.9            | <49.9             | <49.9             | <49.9              | 27.8                |
| <b>S-32</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.1990         | 44.1         | 3,090            | 39,700            | 3,460             | <b>46,300</b>      | <b>1,360</b>        |
|                           | 1            | 1/28/2020       | In-Situ | <0.0199         | 38.3         | 2,140            | 14,400            | 1,640             | <b>18,200</b>      | <b>2,070</b>        |
|                           | 3            | 1/28/2020       | In-Situ | <0.0200         | 1.22         | <49.9            | 485               | 64.3              | <b>549</b>         | 554                 |
|                           | 5            | 1/28/2020       | In-Situ | <0.00200        | <0.00200     | <49.8            | <49.8             | <49.8             | <49.8              | <5.00               |

**Table 1**  
**Delineation Soil Sample Analytical Data Summary**  
**Chevron USA, Blinbry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 6 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg) | C12 - C28 (mg/Kg) | C28 - C35 (mg/Kg) | TPH (mg/Kg)        | Chloride (mg/Kg)    |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|------------------|-------------------|-------------------|--------------------|---------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    |                  |                   |                   | <b>100 / 2,500</b> | <b>600 / 10,000</b> |
| <b>S-33</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00199        | 0.226        | 1,840            | 16,200            | 1,450             | <b>19,500</b>      | 345                 |
|                           | 1            | 1/28/2020       | In-Situ | <0.0200         | 3.77         | <250             | 2,860             | 365               | <b>3,230</b>       | 484                 |
|                           | 3            | 1/28/2020       | In-Situ | <0.00199        | <0.00199     | <50.0            | <50.0             | <50.0             | <50.0              | 8.24                |
|                           | 5            | 1/28/2020       | In-Situ | <0.00198        | <0.00198     | <50.0            | <50.0             | <50.0             | <50.0              | <5.01               |
|                           | 10           | 1/28/2020       | In-Situ | <0.00198        | <0.00198     | <49.9            | <49.9             | <49.9             | <49.9              | <5.02               |
| <b>S-34</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.1980         | 30.2         | 2,360            | 20,800            | 1,930             | <b>25,100</b>      | <b>1,000</b>        |
|                           | 1            | 1/28/2020       | In-Situ | <0.0200         | 0.526        | <250             | 2,700             | 358               | <b>3,060</b>       | 239                 |
|                           | 3            | 1/28/2020       | In-Situ | <0.00199        | <0.00199     | <50.0            | <50.0             | <50.0             | <50.0              | 12.0                |
|                           | 5            | 1/28/2020       | In-Situ | <0.00200        | <0.00200     | <49.9            | <49.9             | <49.9             | <49.9              | <5.03               |
| <b>S-35</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | 0.404           | 29.3         | 1,350            | 15,400            | 1,460             | <b>18,200</b>      | <b>4,180</b>        |
|                           | 1            | 1/29/2020       | In-Situ | <0.00202        | <0.00202     | <49.9            | <49.9             | <49.9             | <49.9              | 163                 |
|                           | 3            | 1/29/2020       | In-Situ | <0.00200        | <0.00200     | <49.9            | <49.9             | <49.9             | <49.9              | 118                 |
| <b>S-36</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.0996         | 23.7         | 1,990            | 23,500            | 2,120             | <b>27,600</b>      | 206                 |
|                           | 1            | 1/29/2020       | In-Situ | <0.00202        | 0.00726      | <249             | 7,420             | 882               | <b>8,300</b>       | <b>989</b>          |
|                           | 3            | 1/29/2020       | In-Situ | <0.00201        | <0.00201     | <49.8            | <49.8             | <49.8             | <49.8              | 9.47                |
|                           | 5            | 1/29/2020       | In-Situ | <0.00201        | <0.00201     | <50.0            | <50.0             | <50.0             | <50.0              | 94.8                |
|                           | 10           | 1/29/2020       | In-Situ | <0.00199        | <0.00199     | <49.9            | <49.9             | <49.9             | <49.9              | 49.4                |
| <b>S-37</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00202        | <0.00202     | <50.0            | <50.0             | <50.0             | <50.0              | <4.96               |
|                           | 0.5 - 1      | 12/16/2019      | In-Situ | <0.00200        | <0.00200     | <50.0            | <50.0             | <50.0             | <50.0              | <5.00               |
| <b>S-38</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.0998         | 3.00         | 1,040            | 24,400            | 2,430             | <b>27,900</b>      | <b>1,820</b>        |
|                           | 1            | 1/29/2020       | In-Situ | <0.201          | 27.9         | 2,390            | 13,100            | 2,000             | <b>17,500</b>      | <b>1,040</b>        |
|                           | 3            | 1/29/2020       | In-Situ | <0.00200        | <0.00200     | <49.8            | 167               | <49.8             | <b>167</b>         | 9.07                |
|                           | 5            | 1/29/2020       | In-Situ | <0.00200        | <0.00200     | <50.0            | 66.5              | <50.0             | 66.5               | 8.71                |
| <b>S-39</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.0996         | 22.6         | 1,920            | 23,500            | 2,340             | <b>27,800</b>      | <b>1,260</b>        |
|                           | 1            | 1/29/2020       | In-Situ | <0.0200         | 35.3         | 1,500            | 13,300            | 1,340             | 16,100             | 504                 |
|                           | 3            | 1/29/2020       | In-Situ | <0.0198         | 2.08         | 467              | 2,550             | 341               | 3,360              | 79.8                |
|                           | 5            | 1/29/2020       | In-Situ | <0.00199        | <0.00199     | <50.0            | <50.0             | <50.0             | <50.0              | 33.1                |
|                           | 10           | 1/29/2020       | In-Situ | <0.00199        | <0.00199     | <49.9            | <49.9             | <49.9             | <49.9              | 22.8                |

**Table 1**  
**Delineation Soil Sample Analytical Data Summary**  
**Chevron USA, Blinbry Sat #1**  
**Lea County, New Mexico**  
**North 32 22' 4.98" West 103 5' 7.32"W**

Page 7 of 7

| Sample                    | Depth (Feet) | Collection Date | Status  | Benzene (mg/Kg) | BTEX (mg/Kg) | C6 - C12 (mg/Kg)   | C12 - C28 (mg/Kg)   | C28 - C35 (mg/Kg) | TPH (mg/Kg)  | Chloride (mg/Kg) |
|---------------------------|--------------|-----------------|---------|-----------------|--------------|--------------------|---------------------|-------------------|--------------|------------------|
| <b>Remediation Level:</b> |              |                 |         | <b>10</b>       | <b>50</b>    | <b>100 / 2,500</b> | <b>600 / 10,000</b> |                   |              |                  |
| <b>S-40</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00199        | <0.00199     | <49.9              | <49.9               | <49.9             | <49.9        | <4.98            |
|                           | 0.5 - 1      | 12/16/2019      | In-Situ | <0.00198        | <0.00198     | <49.9              | <49.9               | <49.9             | <49.9        | <4.99            |
| <b>S-41</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00200        | 0.187        | 57.8               | 951                 | 99.4              | <b>1,110</b> | <b>2,560</b>     |
|                           | 1            | 1/29/2020       | In-Situ | <0.0199         | 4.96         | 351                | 7,700               | 861               | <b>8,910</b> | <b>1,450</b>     |
|                           | 3            | 1/29/2020       | In-Situ | <0.00199        | <0.00199     | <50.0              | <50.0               | <50.0             | <50.0        | 11.7             |
|                           | 5            | 1/29/2020       | In-Situ | <0.00202        | <0.00202     | <49.8              | <49.8               | <49.8             | <49.8        | 103              |
|                           | 10           | 1/29/2020       | In-Situ | <0.00201        | <0.00201     | <50.0              | <50.0               | <50.0             | <50.0        | 10.3             |
| <b>S-42</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00200        | <0.00200     | <49.9              | <49.9               | <49.9             | <49.9        | <5.00            |
|                           | 0.5 - 1      | 12/16/2019      | In-Situ | <0.00201        | <0.00201     | <50.0              | <50.0               | <50.0             | <50.0        | <5.00            |
| <b>S-43</b>               | 0 - 0.5      | 12/16/2019      | In-Situ | <0.00201        | <0.00201     | <49.9              | <49.9               | <49.9             | <49.9        | <5.03            |
|                           | 0.5 - 1      | 12/16/2019      | In-Situ | <0.00199        | <0.00199     | <49.8              | <49.8               | <49.8             | <49.8        | 26.9             |

Notes: Analysis performed by Xenco Laboratories by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and M300 (chloride)

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 levels**

## **Figures**



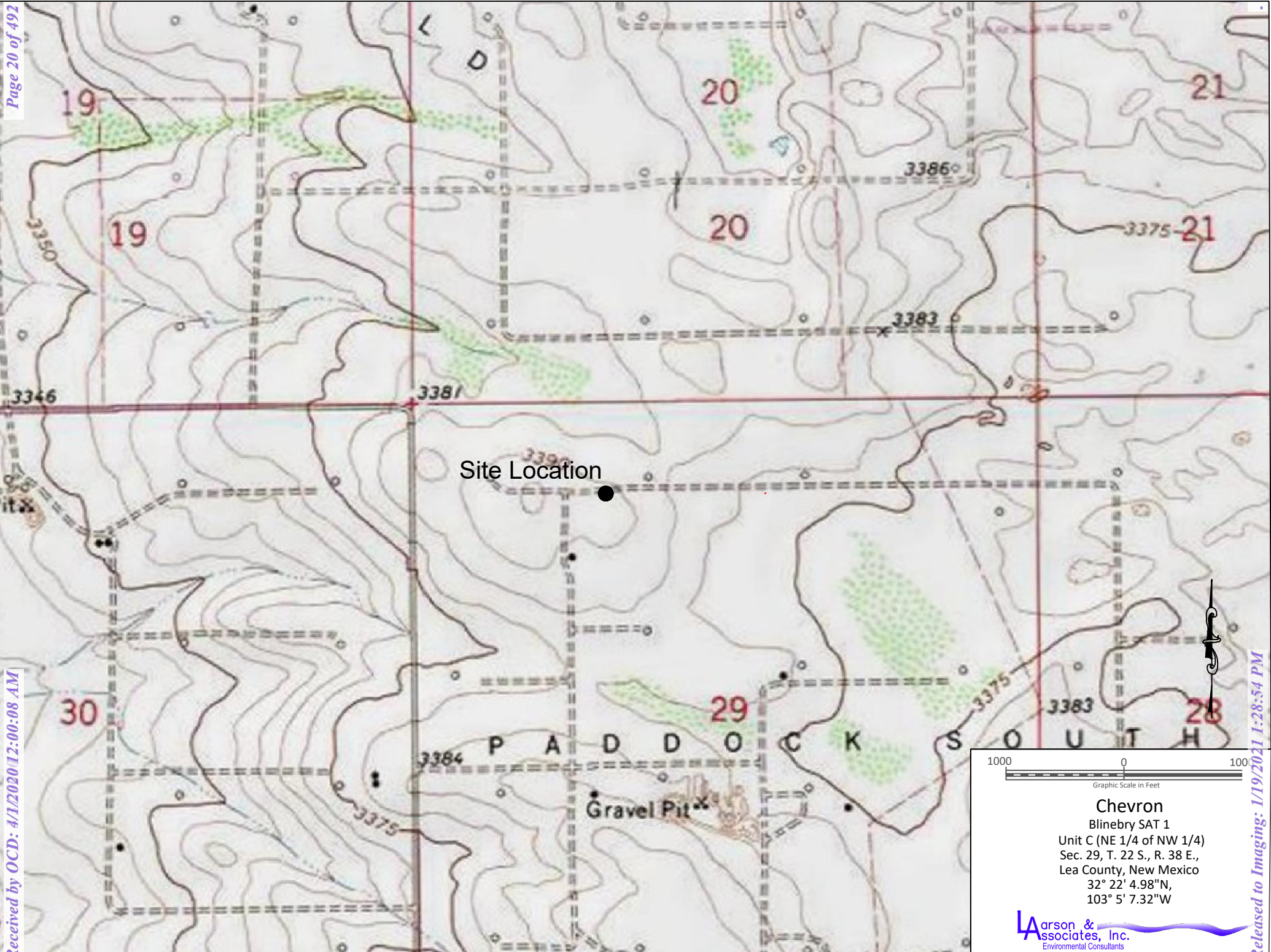
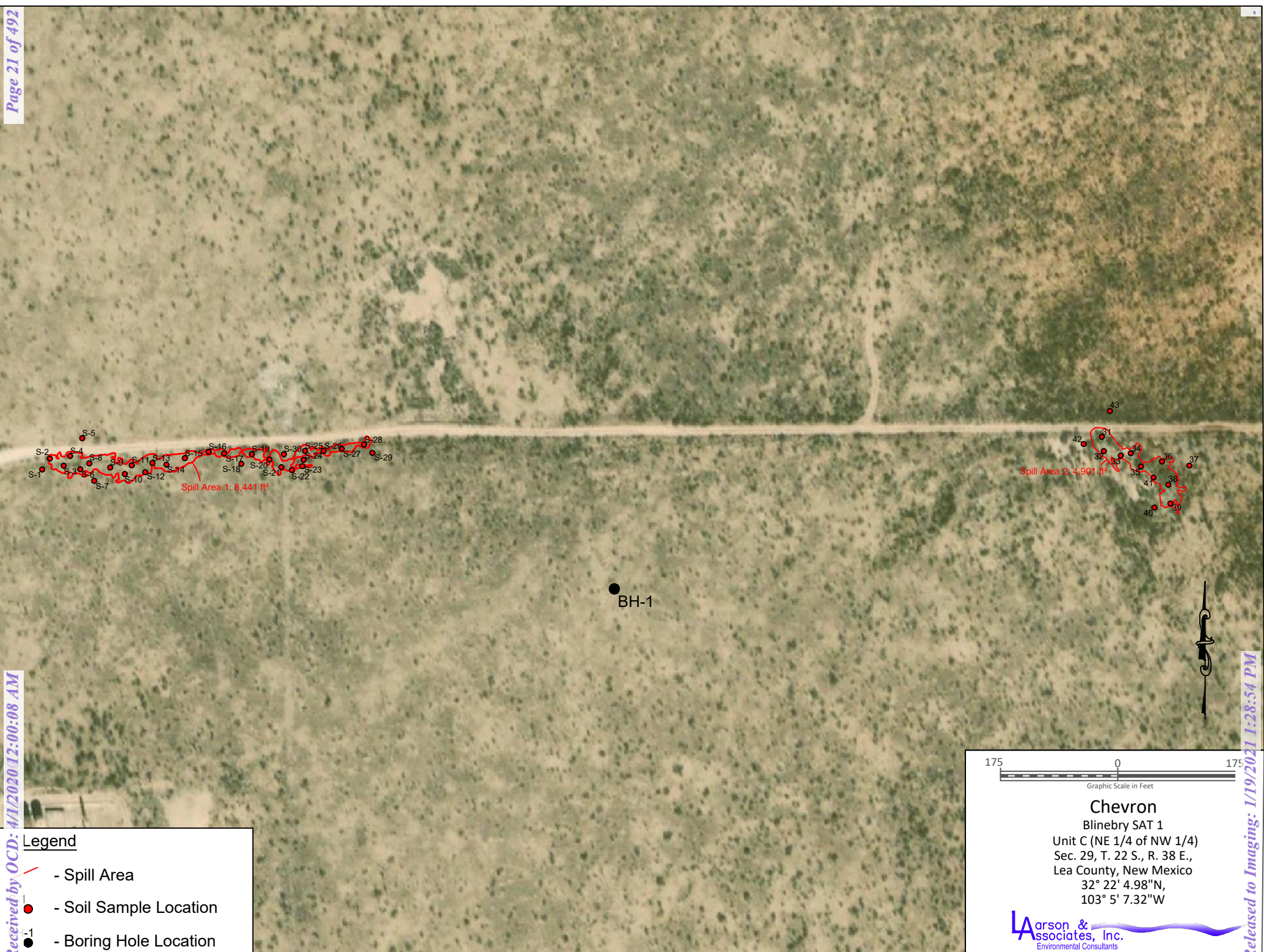


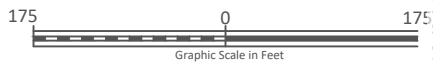
Figure 1 - Topographic Map





**Legend**

- Spill Area
- Soil Sample Location
- Boring Hole Location



**Chevron**  
Blinebry SAT 1  
Unit C (NE 1/4 of NW 1/4)  
Sec. 29, T. 22 S., R. 38 E.,  
Lea County, New Mexico  
32° 22' 4.98"N,  
103° 5' 7.32"W



Figure 2 - Aerial Map





Legend

- Spill Area
- Soil Sample Location



**Chevron**  
Blinebry SAT 1  
Unit C (NE 1/4 of NW 1/4)  
Sec. 29, T. 22 S., R. 38 E.,  
Lea County, New Mexico  
32° 22' 4.98"N,  
103° 5' 7.32"W

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

Figure 2a -Focused Western Spill Aerial Map



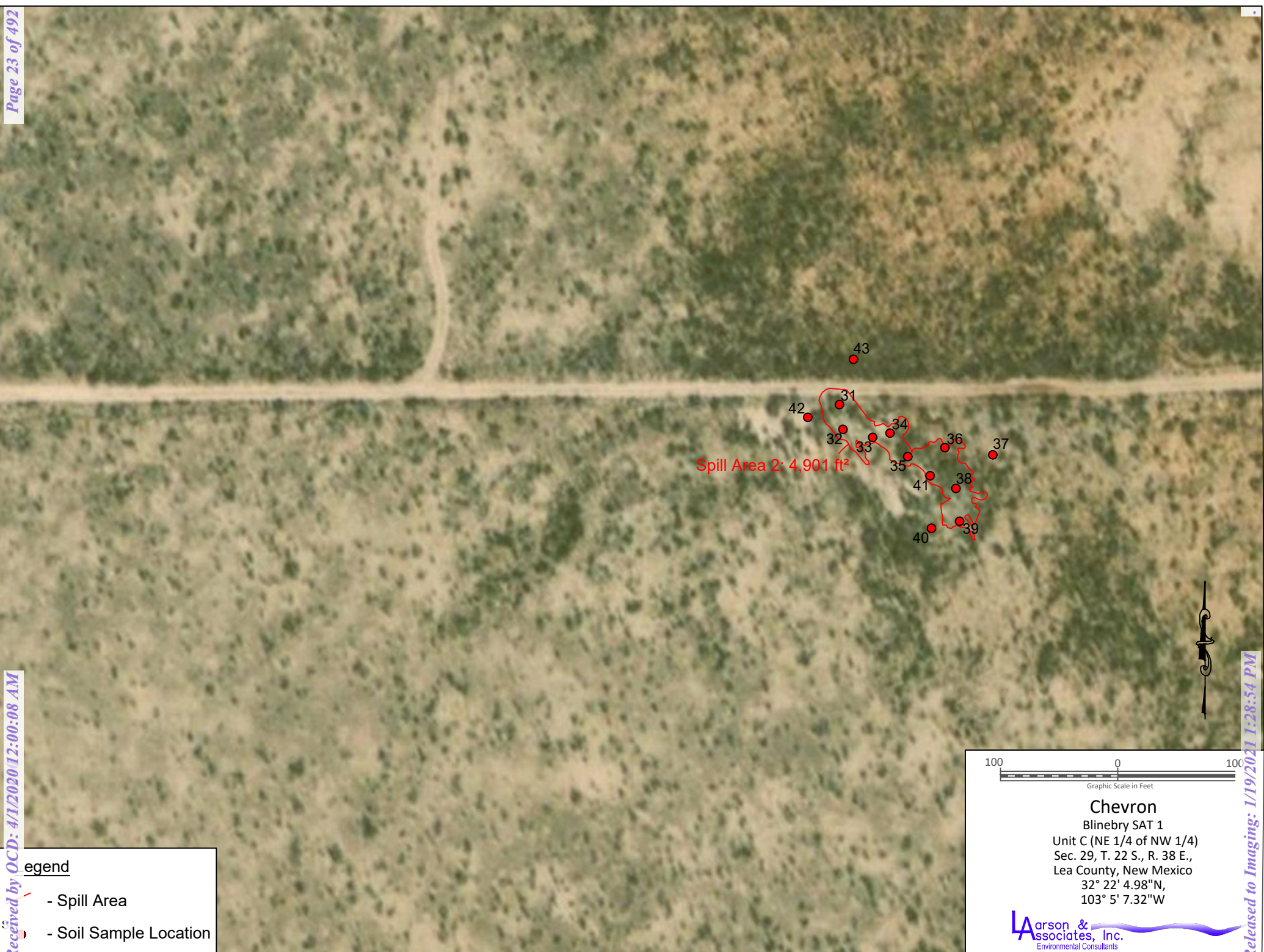


Figure 2b -Focused Eastern Spill Aerial Map



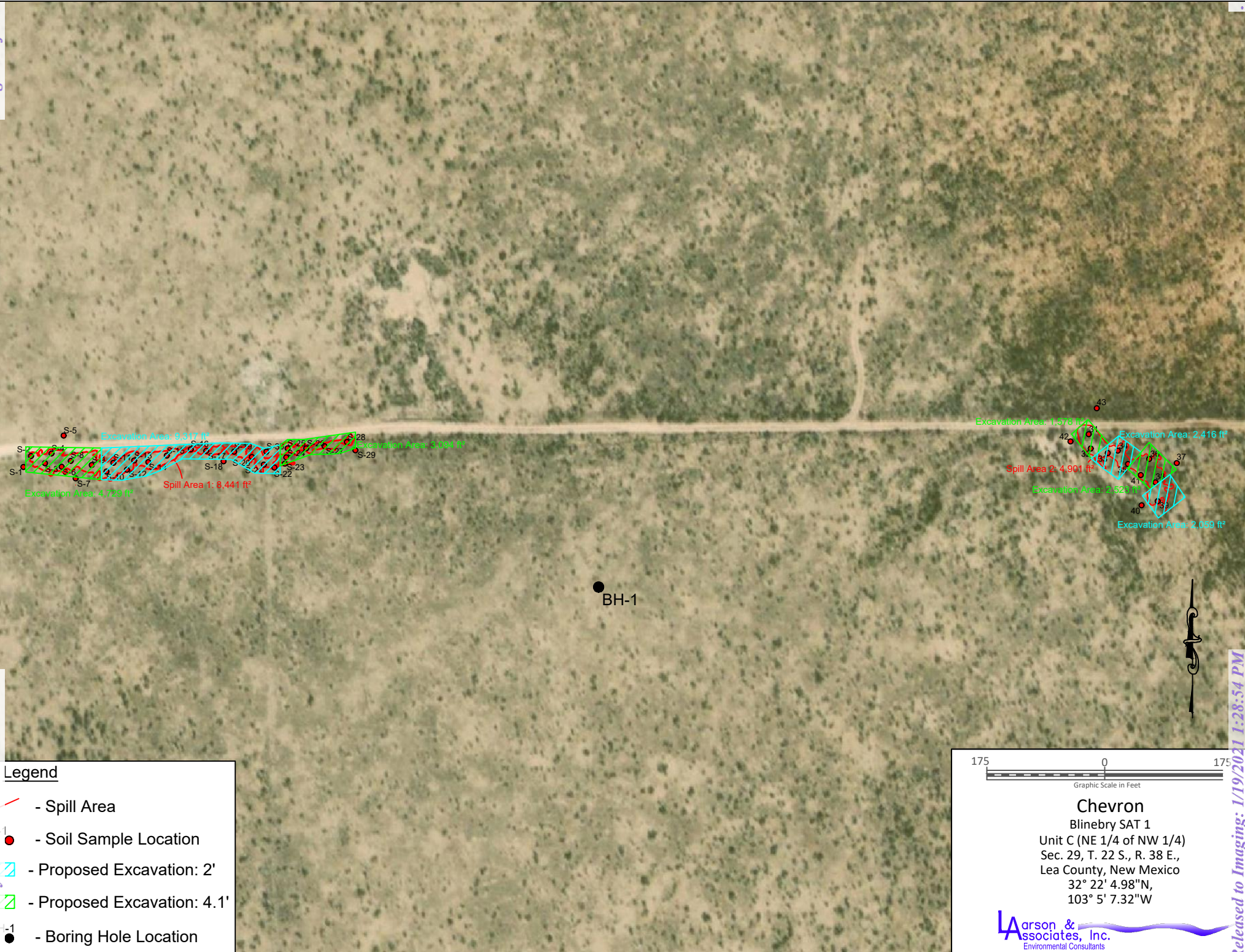


Figure 3 - Aerial Map Showing Proposed Excavation Areas



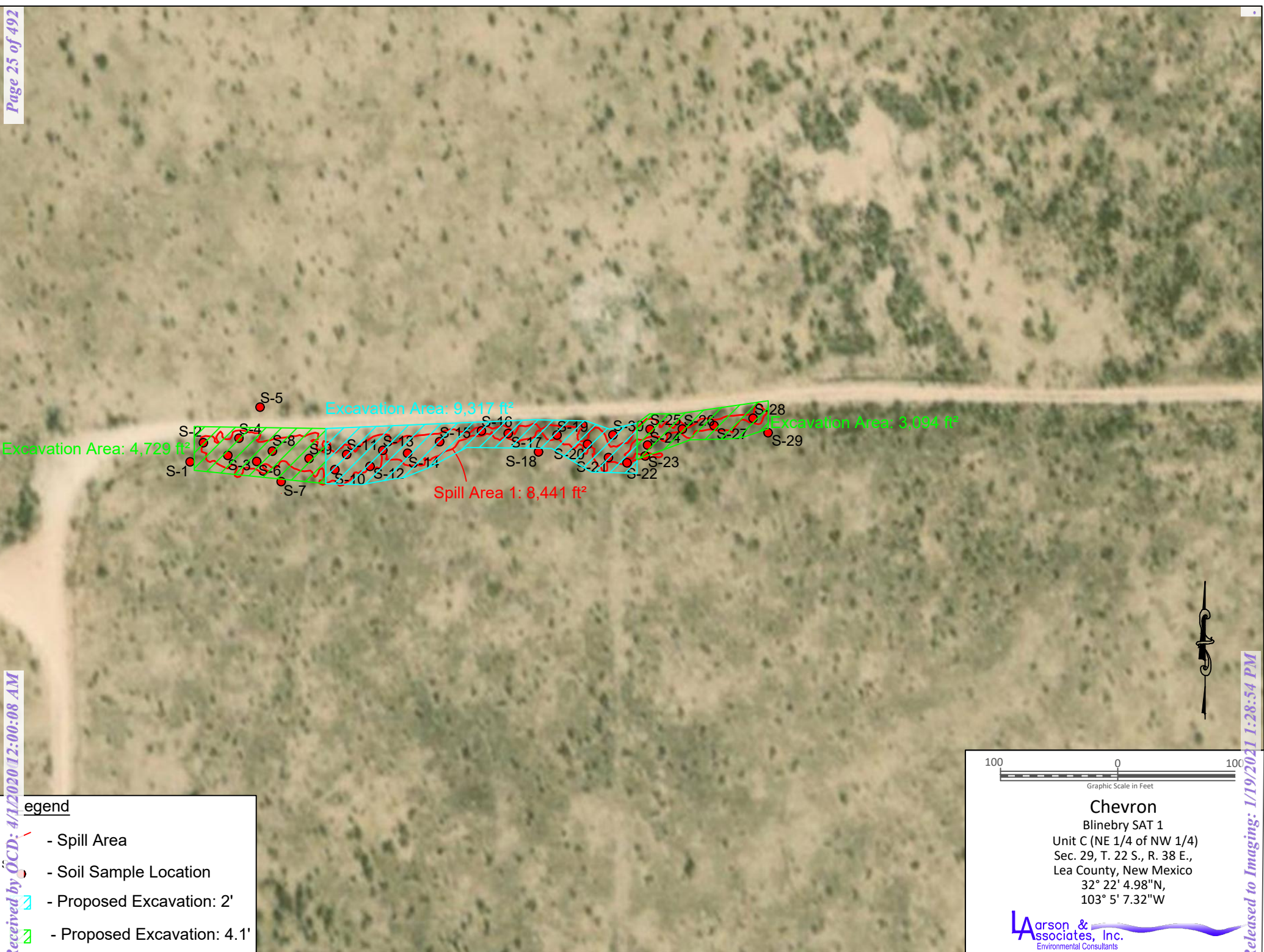


Figure 3a -Focused Western Spill Aerial Map Showing Proposed Excavation Areas



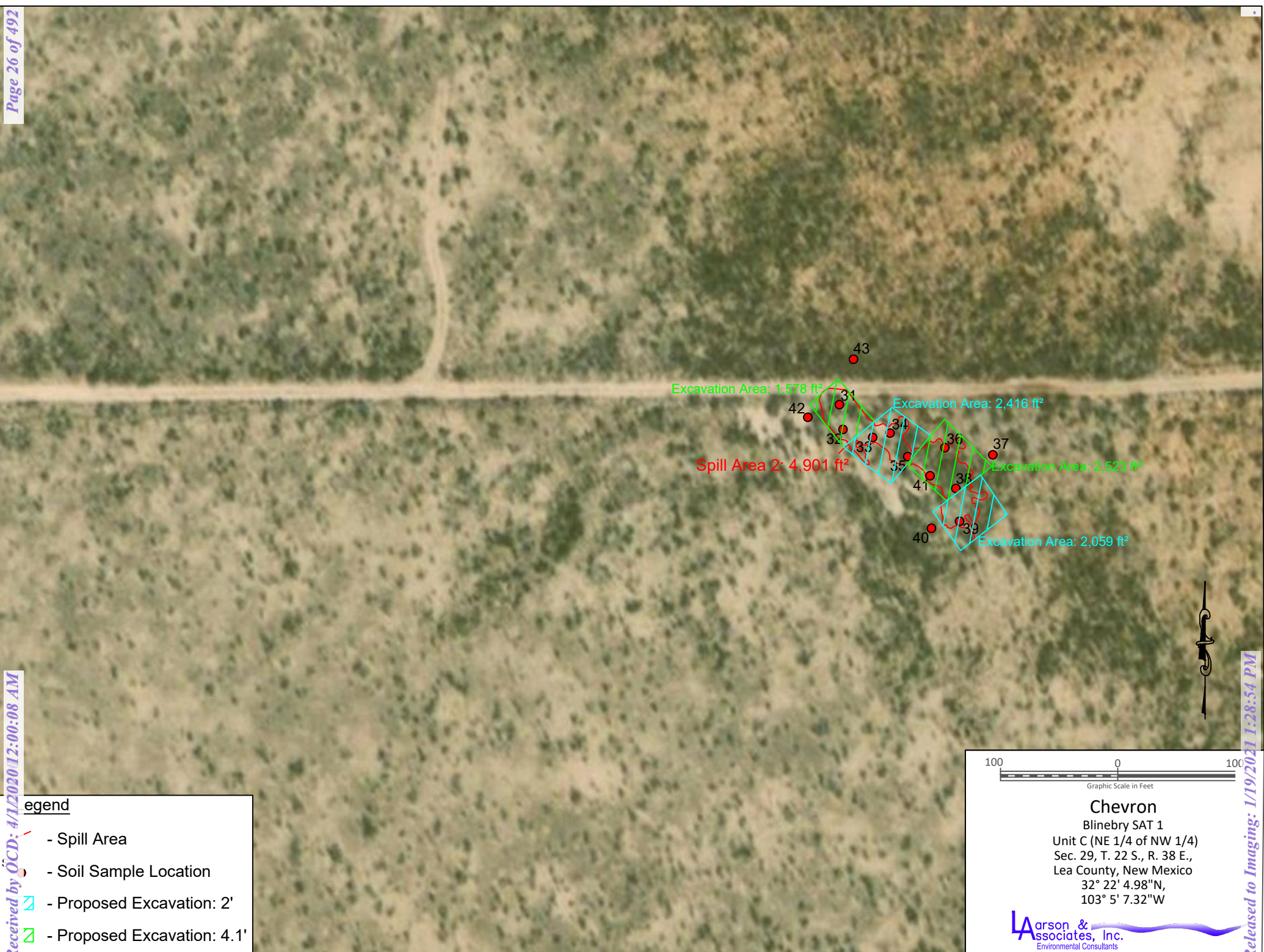


Figure 3b -Focused Eastern Spill Aerial Map Showing Proposed Excavation Areas

**Appendix A**  
**Chevron Spill Calculation**



State of New Mexico  
Oil Conservation Division

Page 3

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

|                                           |                 |         |                          |            |              |
|-------------------------------------------|-----------------|---------|--------------------------|------------|--------------|
| Location                                  |                 |         | Blinberry Sat 1 transfer |            |              |
| All volumes in following table in barrels |                 |         |                          |            |              |
| Area                                      | Standing Liquid | In Soil | dimensions / shape       | Oil Volume | Water Volume |
| 1                                         | 6.11            | 29.33   | 21X157                   | 1.25       | 28.08        |
| 2                                         | 1.02            | 4.89    | 10X55                    | 0.29       | 4.6          |
| 3                                         | 0.69            | 3.34    | 5X75                     | 0.2        | 3.14         |
| 4                                         | 1.22            | 5.87    | 15X44                    | 0.35       | 5.52         |
| 5                                         | 0.15            | 0.71    | 4X20                     | 0.0426     | 0.667        |
| 6                                         | 0.19            | 0.89    | 4X25                     | 0.0534     | 0.837        |
| 7                                         | 0.39            | 1.89    | 3X71                     | 0.1134     | 1.777        |
| 8                                         | 1.03            | 4.94    | 37X15                    | 0.2964     | 4.643        |
| 9                                         | 0.17            | 0.8     | 3X30                     | 0.048      | 0.752        |
| 10                                        | 0.17            | 0.8     | 3X30                     | 0.048      | 0.752        |
| 11                                        | 1.85            | 8.9     | 25X40                    | 0.534      | 8.366        |
| 12                                        | 4               | 0.45    | 1200X2                   | 0.267      | 4.183        |
| Total Fluid                               |                 |         |                          | 4.78       | 79.8         |



**Appendix B**  
**Laboratory Reports**



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 646725-001       | 646725-002       | 646725-003      | 646725-004      | 646725-005      | 646725-006       |
|------------------------------------|-------------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|
|                                    | <b>Field Id:</b>  | S-1 (0-0.5')     | S-1 (0.5-1')     | S-2 (0-0.5')    | S-3 (0-0.5')    | S-4 (0-0.5')    | S-5 (0-0.5')     |
|                                    | <b>Depth:</b>     |                  |                  |                 |                 |                 |                  |
|                                    | <b>Matrix:</b>    | SOIL             | SOIL             | SOIL            | SOIL            | SOIL            | SOIL             |
|                                    | <b>Sampled:</b>   | Dec-13-19 12:51  | Dec-13-19 12:54  | Dec-13-19 12:59 | Dec-13-19 13:03 | Dec-13-19 13:08 | Dec-13-19 13:11  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | Dec-21-19 13:00  | Dec-21-19 13:00  | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-26-19 17:00  |
|                                    | <b>Analyzed:</b>  | Dec-21-19 23:29  | Dec-21-19 23:49  | Dec-24-19 13:52 | Dec-24-19 14:13 | Dec-24-19 14:33 | Dec-26-19 23:07  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Benzene                            |                   | <0.00202 0.00202 | <0.00202 0.00202 | 1.42 0.199      | 1.27 0.200      | 2.69 0.505      | <0.00200 0.00200 |
| Toluene                            |                   | <0.00202 0.00202 | <0.00202 0.00202 | 27.5 0.199      | 7.38 0.200      | 6.54 0.505      | <0.00200 0.00200 |
| Ethylbenzene                       |                   | <0.00202 0.00202 | <0.00202 0.00202 | 26.0 0.199      | 1.38 0.200      | 9.03 0.505      | <0.00200 0.00200 |
| m,p-Xylenes                        |                   | <0.00403 0.00403 | <0.00403 0.00403 | 45.0 0.398      | 64.2 0.399      | 127 1.01        | <0.00401 0.00401 |
| o-Xylene                           |                   | <0.00202 0.00202 | <0.00202 0.00202 | 18.5 0.199      | 27.1 0.200      | 51.6 0.505      | <0.00200 0.00200 |
| Total Xylenes                      |                   | <0.00202 0.00202 | <0.00202 0.00202 | 63.5 0.199      | 91.3 0.200      | 179 0.505       | <0.00200 0.00200 |
| Total BTEX                         |                   | <0.00202 0.00202 | <0.00202 0.00202 | 118 0.199       | 101 0.200       | 197 0.505       | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | Dec-18-19 18:30  | Dec-18-19 18:30  | Dec-18-19 18:30 | Dec-18-19 18:30 | Dec-18-19 18:30 | Dec-18-19 18:30  |
|                                    | <b>Analyzed:</b>  | Dec-18-19 21:54  | Dec-18-19 23:07  | Dec-18-19 20:13 | Dec-18-19 23:14 | Dec-18-19 23:22 | Dec-18-19 23:29  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Chloride                           |                   | <4.97 4.97       | <4.97 4.97       | 304 5.04        | 5430 25.1       | 2960 25.2       | <5.01 5.01       |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | Dec-18-19 16:00  | Dec-18-19 16:00  | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00  |
|                                    | <b>Analyzed:</b>  | Dec-19-19 13:25  | Dec-19-19 14:29  | Dec-19-19 16:14 | Dec-19-19 16:35 | Dec-19-19 16:56 | Dec-19-19 14:50  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.0 50.0       | <49.9 49.9       | 7670 500        | 5790 499        | 3700 500        | <49.9 49.9       |
| Diesel Range Organics (DRO)        |                   | <50.0 50.0       | <49.9 49.9       | 33900 500       | 19000 499       | 22200 500       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0       | <49.9 49.9       | 2910 500        | 1700 499        | 1980 500        | <49.9 49.9       |
| Total TPH                          |                   | <50.0 50.0       | <49.9 49.9       | 44500 500       | 26500 499       | 27900 500       | <49.9 49.9       |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-007       | 646725-008      | 646725-009       | 646725-010       | 646725-011      | 646725-012      |
|------------------------------------|-------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|
|                                    | <i>Field Id:</i>  | S-5 (0.5-1')     | S-6 (0-0.5')    | S-7 (0-0.5')     | S-7 (0.5-1')     | S-8 (0-0.5')    | S-9 (0-0.5')    |
|                                    | <i>Depth:</i>     |                  |                 |                  |                  |                 |                 |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL            | SOIL             | SOIL             | SOIL            | SOIL            |
|                                    | <i>Sampled:</i>   | Dec-13-19 13:12  | Dec-13-19 13:15 | Dec-13-19 13:16  | Dec-13-19 13:17  | Dec-13-19 13:20 | Dec-13-19 13:23 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-26-19 17:00  | Dec-24-19 12:00 | Dec-26-19 17:00  | Dec-26-19 17:00  | Dec-24-19 12:00 | Dec-24-19 12:00 |
|                                    | <i>Analyzed:</i>  | Dec-26-19 23:28  | Dec-24-19 15:33 | Dec-26-19 23:48  | Dec-27-19 00:08  | Dec-24-19 16:33 | Dec-24-19 17:52 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Benzene                            |                   | <0.00199 0.00199 | 0.676 0.199     | <0.00200 0.00200 | <0.00198 0.00198 | 4.84 0.200      | 2.06 0.200      |
| Toluene                            |                   | <0.00199 0.00199 | 8.27 0.199      | <0.00200 0.00200 | <0.00198 0.00198 | 22.9 0.200      | 11.5 0.200      |
| Ethylbenzene                       |                   | <0.00199 0.00199 | 3.50 0.199      | <0.00200 0.00200 | <0.00198 0.00198 | 10.2 0.200      | 2.38 0.200      |
| m,p-Xylenes                        |                   | <0.00398 0.00398 | 30.6 0.398      | <0.00399 0.00399 | <0.00396 0.00396 | 36.3 0.400      | 47.1 0.401      |
| o-Xylene                           |                   | <0.00199 0.00199 | 13.0 0.199      | <0.00200 0.00200 | <0.00198 0.00198 | 14.2 0.200      | 18.2 0.200      |
| Total Xylenes                      |                   | <0.00199 0.00199 | 43.6 0.199      | <0.00200 0.00200 | <0.00198 0.00198 | 50.5 0.200      | 65.3 0.200      |
| Total BTEX                         |                   | <0.00199 0.00199 | 56.0 0.199      | <0.00200 0.00200 | <0.00198 0.00198 | 88.4 0.200      | 81.2 0.200      |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 08:30  | Dec-19-19 08:30 | Dec-19-19 08:30  | Dec-19-19 08:30  | Dec-19-19 08:30 | Dec-19-19 08:30 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 10:23  | Dec-19-19 10:45 | Dec-19-19 10:52  | Dec-19-19 12:05  | Dec-19-19 11:00 | Dec-19-19 11:07 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Chloride                           |                   | <4.96 4.96       | 3720 25.0       | <4.99 4.99       | <5.00 5.00       | 6010 50.4       | 5080 25.1       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00  | Dec-18-19 16:00 | Dec-18-19 16:00  | Dec-18-19 16:00  | Dec-18-19 16:00 | Dec-18-19 16:00 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 15:11  | Dec-19-19 17:17 | Dec-19-19 15:32  | Dec-19-19 15:53  | Dec-19-19 17:59 | Dec-19-19 18:20 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.0 50.0       | 4440 498        | <50.0 50.0       | <50.0 50.0       | 7900 499        | 6250 499        |
| Diesel Range Organics (DRO)        |                   | <50.0 50.0       | 29800 498       | <50.0 50.0       | <50.0 50.0       | 32300 499       | 20900 499       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0       | 2820 498        | <50.0 50.0       | <50.0 50.0       | 2730 499        | 1910 499        |
| Total TPH                          |                   | <50.0 50.0       | 37100 498       | <50.0 50.0       | <50.0 50.0       | 42900 499       | 29100 499       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-013      | 646725-014      | 646725-015      | 646725-016      | 646725-017      | 646725-018      |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                    | <i>Field Id:</i>  | S-10 (0-0.5')   | S-11 (0-0.5')   | S-12 (0-0.5')   | S-13 (0-0.5')   | S-14 (0-0.5')   | S-15 (0-0.5')   |
|                                    | <i>Depth:</i>     |                 |                 |                 |                 |                 |                 |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                    | <i>Sampled:</i>   | Dec-13-19 13:26 | Dec-13-19 13:27 | Dec-13-19 13:35 | Dec-13-19 13:38 | Dec-13-19 13:39 | Dec-13-19 14:00 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-24-19 12:00 |
|                                    | <i>Analyzed:</i>  | Dec-24-19 18:12 | Dec-24-19 18:32 | Dec-24-19 18:53 | Dec-24-19 19:13 | Dec-24-19 19:33 | Dec-24-19 19:53 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                            |                   | 5.25 0.199      | 0.738 0.0998    | 2.07 0.201      | 4.64 0.201      | 5.80 0.200      | 2.02 0.0996     |
| Toluene                            |                   | 33.9 0.199      | 2.72 0.0998     | 18.9 0.201      | 38.5 0.201      | 87.9 D 0.501    | 15.7 0.0996     |
| Ethylbenzene                       |                   | 34.0 0.199      | 0.872 0.0998    | 15.4 0.201      | 26.8 0.201      | 88.0 D 0.501    | 13.8 0.0996     |
| m,p-Xylenes                        |                   | 56.0 0.398      | 16.6 0.200      | 26.9 0.402      | 66.2 0.402      | 173 D 1.00      | 23.5 0.199      |
| o-Xylene                           |                   | 23.4 0.199      | 6.85 0.0998     | 11.4 0.201      | 26.6 0.201      | 33.9 0.200      | 9.79 0.0996     |
| Total Xylenes                      |                   | 79.4 0.199      | 23.5 0.0998     | 38.3 0.201      | 92.8 0.201      | 207 0.200       | 33.3 0.0996     |
| Total BTEX                         |                   | 153 0.199       | 27.8 0.0998     | 74.7 0.201      | 163 0.201       | 389 0.200       | 64.8 0.0996     |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 08:30 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 11:29 | Dec-19-19 11:36 | Dec-19-19 11:43 | Dec-19-19 11:51 | Dec-19-19 11:58 | Dec-19-19 12:27 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                           |                   | 3350 25.3       | 2570 24.9       | 3200 25.0       | 1850 24.8       | 1240 5.02       | 424 4.98        |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 18:41 | Dec-19-19 19:03 | Dec-19-19 19:24 | Dec-19-19 19:45 | Dec-19-19 20:06 | Dec-19-19 20:26 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |                   | 7990 500        | 4170 499        | 3190 499        | 9760 499        | 10800 500       | 2960 499        |
| Diesel Range Organics (DRO)        |                   | 27200 500       | 20400 499       | 17900 499       | 35000 499       | 37500 500       | 20800 499       |
| Motor Oil Range Hydrocarbons (MRO) |                   | 2410 500        | 1820 499        | 1650 499        | 2990 499        | 3240 500        | 2010 499        |
| Total TPH                          |                   | 37600 500       | 26400 499       | 22700 499       | 47800 499       | 51500 500       | 25800 499       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-019      | 646725-020      | 646725-021       | 646725-022       | 646725-023      | 646725-024      |
|------------------------------------|-------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
|                                    | <i>Field Id:</i>  | S-16 (0-0.5')   | S-17 (0-0.5')   | S-18 (0-0.5')    | S-18 (0.5-1')    | S-19 (0-0.5')   | S-20 (0-0.5')   |
|                                    | <i>Depth:</i>     |                 |                 |                  |                  |                 |                 |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL             | SOIL             | SOIL            | SOIL            |
|                                    | <i>Sampled:</i>   | Dec-13-19 14:01 | Dec-13-19 14:02 | Dec-13-19 14:10  | Dec-13-19 14:11  | Dec-13-19 14:13 | Dec-13-19 14:15 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-24-19 12:00 | Dec-24-19 12:00 | Dec-26-19 17:00  | Dec-24-19 14:00  | Dec-24-19 14:00 | Dec-24-19 14:00 |
|                                    | <i>Analyzed:</i>  | Dec-24-19 20:13 | Dec-24-19 20:33 | Dec-27-19 00:29  | Dec-27-19 13:52  | Dec-27-19 14:12 | Dec-27-19 14:32 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Benzene                            |                   | 1.86 0.200      | 6.26 0.100      | <0.00201 0.00201 | <0.00201 0.00201 | <0.200 0.200    | <0.200 0.200    |
| Toluene                            |                   | 16.0 0.200      | 37.1 D 0.201    | <0.00201 0.00201 | <0.00201 0.00201 | <0.200 0.200    | <0.200 0.200    |
| Ethylbenzene                       |                   | 11.3 0.200      | 31.6 D 0.201    | <0.00201 0.00201 | <0.00201 0.00201 | <0.200 0.200    | <0.200 0.200    |
| m,p-Xylenes                        |                   | 33.3 0.399      | 36.5 0.201      | <0.00402 0.00402 | <0.00402 0.00402 | 0.633 0.400     | <0.399 0.399    |
| o-Xylene                           |                   | 13.7 0.200      | 15.2 0.100      | <0.00201 0.00201 | <0.00201 0.00201 | 0.351 0.200     | <0.200 0.200    |
| Total Xylenes                      |                   | 47.0 0.200      | 51.7 0.100      | <0.00201 0.00201 | <0.00201 0.00201 | 0.984 0.200     | <0.200 0.200    |
| Total BTEX                         |                   | 76.2 0.200      | 127 0.100       | <0.00201 0.00201 | <0.00201 0.00201 | 0.984 0.200     | <0.200 0.200    |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 08:30  | Dec-19-19 08:30  | Dec-19-19 08:30 | Dec-19-19 08:30 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 12:34 | Dec-19-19 12:56 | Dec-19-19 13:03  | Dec-19-19 13:10  | Dec-19-19 13:18 | Dec-19-19 13:25 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Chloride                           |                   | 3890 24.8       | 3320 24.8       | <4.97 4.97       | <4.96 4.96       | 3270 25.1       | 2750 25.0       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00  | Dec-18-19 16:00  | Dec-18-19 16:00 | Dec-18-19 16:00 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 20:47 | Dec-19-19 21:08 | Dec-19-19 22:52  | Dec-19-19 23:55  | Dec-20-19 02:23 | Dec-20-19 02:44 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |                   | 2770 499        | 4460 500        | <50.0 50.0       | <50.0 50.0       | 2740 250        | 2010 499        |
| Diesel Range Organics (DRO)        |                   | 16900 499       | 22900 500       | <50.0 50.0       | <50.0 50.0       | 18800 250       | 28500 499       |
| Motor Oil Range Hydrocarbons (MRO) |                   | 1600 499        | 1960 500        | <50.0 50.0       | <50.0 50.0       | 1530 250        | 2470 499        |
| Total TPH                          |                   | 21300 499       | 29300 500       | <50.0 50.0       | <50.0 50.0       | 23100 250       | 33000 499       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08

Contact: Mark Larson

Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am

Report Date: 31-DEC-19

Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-025      | 646725-026      | 646725-027      | 646725-028       | 646725-029       | 646725-030      |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------|
|                                    | <i>Field Id:</i>  | S-21 (0-0.5')   | S-22 (0-0.5')   | S-23 (0-0.5')   | S-24 (0-0.5')    | S-24 (0.5-1')    | S-25 (0-0.5')   |
|                                    | <i>Depth:</i>     |                 |                 |                 |                  |                  |                 |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL             | SOIL             | SOIL            |
|                                    | <i>Sampled:</i>   | Dec-13-19 14:17 | Dec-13-19 14:18 | Dec-13-19 14:20 | Dec-13-19 14:25  | Dec-13-19 12:26  | Dec-13-19 12:29 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-24-19 14:00 | Dec-24-19 14:00 | Dec-24-19 14:00 | Dec-24-19 14:00  | Dec-24-19 14:00  | Dec-24-19 14:00 |
|                                    | <i>Analyzed:</i>  | Dec-27-19 14:52 | Dec-27-19 15:12 | Dec-27-19 15:33 | Dec-27-19 15:53  | Dec-27-19 16:13  | Dec-27-19 16:33 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Benzene                            |                   | <0.0996 0.0996  | 0.0143 0.00201  | <0.0994 0.0994  | <0.00199 0.00199 | <0.00199 0.00199 | 0.343 0.198     |
| Toluene                            |                   | 0.141 0.0996    | 0.312 0.00201   | <0.0994 0.0994  | <0.00199 0.00199 | <0.00199 0.00199 | 6.48 0.198      |
| Ethylbenzene                       |                   | 0.179 0.0996    | 0.325 0.00201   | <0.0994 0.0994  | <0.00199 0.00199 | <0.00199 0.00199 | 11.4 0.198      |
| m,p-Xylenes                        |                   | 0.574 0.199     | 0.614 0.00402   | 0.548 0.199     | <0.00398 0.00398 | <0.00398 0.00398 | 23.7 0.396      |
| o-Xylene                           |                   | 0.312 0.0996    | 0.311 0.00201   | 0.363 0.0994    | <0.00199 0.00199 | <0.00199 0.00199 | 11.3 0.198      |
| Total Xylenes                      |                   | 0.886 0.0996    | 0.925 0.00201   | 0.911 0.0994    | <0.00199 0.00199 | <0.00199 0.00199 | 35.0 0.198      |
| Total BTEX                         |                   | 1.21 0.0996     | 1.58 0.00201    | 0.911 0.0994    | <0.00199 0.00199 | <0.00199 0.00199 | 53.2 0.198      |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 08:30 | Dec-19-19 08:30 | Dec-19-19 09:00 | Dec-19-19 09:00  | Dec-19-19 09:00  | Dec-19-19 09:00 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 13:32 | Dec-19-19 13:39 | Dec-19-19 09:21 | Dec-19-19 09:40  | Dec-19-19 09:47  | Dec-19-19 09:54 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Chloride                           |                   | 3190 25.2       | 70.9 4.97       | 523 5.03        | <4.96 4.96       | <5.00 5.00       | 2950 25.1       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00  | Dec-18-19 16:00  | Dec-18-19 16:00 |
|                                    | <i>Analyzed:</i>  | Dec-20-19 03:25 | Dec-20-19 03:46 | Dec-20-19 04:07 | Dec-20-19 00:16  | Dec-20-19 00:37  | Dec-20-19 04:29 |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |                   | 3410 498        | 3070 500        | 2180 499        | <49.9 49.9       | <50.0 50.0       | 2990 498        |
| Diesel Range Organics (DRO)        |                   | 38000 498       | 33900 500       | 31000 499       | <49.9 49.9       | <50.0 50.0       | 38900 498       |
| Motor Oil Range Hydrocarbons (MRO) |                   | 3210 498        | 2960 500        | 2740 499        | <49.9 49.9       | <50.0 50.0       | 3250 498        |
| Total TPH                          |                   | 44600 498       | 39900 500       | 35900 499       | <49.9 49.9       | <50.0 50.0       | 45100 498       |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-031      | 646725-032      | 646725-033      | 646725-034       | 646725-035       | 646725-036       |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | S-26 (0-0.5')   | S-27 (0-0.5')   | S-28 (0-0.5')   | S-29 (0-0.5')    | S-29 (0.5-1')    | S-30 (0-0.5')    |
|                                    | <i>Depth:</i>     |                 |                 |                 |                  |                  |                  |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | Dec-13-19 14:30 | Dec-13-19 14:33 | Dec-13-19 14:35 | Dec-13-19 14:40  | Dec-13-19 14:45  | Dec-13-19 14:47  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-24-19 14:00 | Dec-24-19 14:00 | Dec-24-19 14:00 | Dec-24-19 14:00  | Dec-24-19 14:00  | Dec-24-19 14:00  |
|                                    | <i>Analyzed:</i>  | Dec-27-19 16:53 | Dec-27-19 18:12 | Dec-27-19 18:32 | Dec-27-19 18:52  | Dec-27-19 19:12  | Dec-27-19 19:32  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | 0.720 0.201     | 1.03 0.101      | 0.639 0.202     | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| Toluene                            |                   | 15.6 0.201      | 16.5 0.101      | 5.36 0.202      | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| Ethylbenzene                       |                   | 30.2 0.201      | 31.8 KD 0.202   | 7.54 0.202      | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| m,p-Xylenes                        |                   | 53.0 0.402      | 58.1 KD 0.403   | 22.4 0.403      | <0.00397 0.00397 | <0.00401 0.00401 | <0.00399 0.00399 |
| o-Xylene                           |                   | 25.6 0.201      | 18.5 0.101      | 10.8 0.202      | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| Total Xylenes                      |                   | 78.6 0.201      | 76.6 K 0.101    | 33.2 0.202      | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| Total BTEX                         |                   | 125 0.201       | 126 K 0.101     | 46.7 0.202      | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 09:00 | Dec-19-19 09:00 | Dec-19-19 09:00 | Dec-19-19 09:00  | Dec-19-19 09:00  | Dec-19-19 09:00  |
|                                    | <i>Analyzed:</i>  | Dec-19-19 10:00 | Dec-19-19 10:20 | Dec-19-19 10:27 | Dec-19-19 10:34  | Dec-19-19 10:40  | Dec-19-19 10:47  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 190 4.98        | 529 5.01        | 1160 5.05       | <4.98 4.98       | <5.01 5.01       | <5.00 5.00       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00  | Dec-18-19 16:00  | Dec-18-19 16:00  |
|                                    | <i>Analyzed:</i>  | Dec-20-19 04:50 | Dec-20-19 05:11 | Dec-20-19 05:32 | Dec-20-19 00:58  | Dec-20-19 01:20  | Dec-20-19 01:41  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | 4690 500        | 4650 499        | 2540 500        | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       |
| Diesel Range Organics (DRO)        |                   | 39800 500       | 38800 499       | 35600 500       | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |                   | 3340 500        | 3380 499        | 3340 500        | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       |
| Total TPH                          |                   | 47800 500       | 46800 499       | 41500 500       | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 646725-037       | 646725-038      | 646725-039      | 646725-040       | 646725-041      | 646725-042      |
|------------------------------------|-------------------|------------------|-----------------|-----------------|------------------|-----------------|-----------------|
|                                    | <i>Field Id:</i>  | S-30 (0.5-1')    | S-31 (0-0.5')   | S-32 (0-0.5')   | S-33 (0-0.5')    | S-34 (0-0.5')   | S-35 (0-0.5')   |
|                                    | <i>Depth:</i>     |                  |                 |                 |                  |                 |                 |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL            | SOIL            | SOIL             | SOIL            | SOIL            |
|                                    | <i>Sampled:</i>   | Dec-13-19 14:50  | Dec-16-19 16:18 | Dec-16-19 16:20 | Dec-16-19 16:22  | Dec-16-19 16:25 | Dec-16-19 16:28 |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Dec-24-19 14:00  | Dec-24-19 14:00 | Dec-24-19 14:00 | Dec-24-19 14:00  | Dec-24-19 14:00 | Dec-24-19 14:15 |
|                                    | <i>Analyzed:</i>  | Dec-27-19 19:53  | Dec-27-19 20:13 | Dec-27-19 20:33 | Dec-27-19 20:53  | Dec-27-19 21:13 | Dec-26-19 15:12 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Benzene                            |                   | <0.00200 0.00200 | 0.169 0.0990    | <0.199 0.199    | <0.00199 0.00199 | <0.198 0.198    | 0.404 0.100     |
| Toluene                            |                   | <0.00200 0.00200 | 6.35 0.0990     | 1.70 0.199      | 0.00523 0.00199  | 2.19 0.198      | 2.68 0.100      |
| Ethylbenzene                       |                   | <0.00200 0.00200 | 18.2 0.0990     | 4.62 0.199      | 0.0610 0.00199   | 6.45 0.198      | 6.67 0.100      |
| m,p-Xylenes                        |                   | <0.00401 0.00401 | 39.6 0.198      | 24.4 0.398      | 0.0227 0.00398   | 14.4 0.397      | 13.6 0.200      |
| o-Xylene                           |                   | <0.00200 0.00200 | 19.4 0.0990     | 13.4 0.199      | 0.137 0.00199    | 7.16 0.198      | 5.94 0.100      |
| Total Xylenes                      |                   | <0.00200 0.00200 | 59.0 0.0990     | 37.8 0.199      | 0.160 0.00199    | 21.6 0.198      | 19.5 0.100      |
| Total BTEX                         |                   | <0.00200 0.00200 | 83.7 0.0990     | 44.1 0.199      | 0.226 0.00199    | 30.2 0.198      | 29.3 0.100      |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Dec-19-19 09:00  | Dec-19-19 09:00 | Dec-19-19 09:00 | Dec-19-19 09:00  | Dec-19-19 09:00 | Dec-19-19 09:00 |
|                                    | <i>Analyzed:</i>  | Dec-19-19 10:54  | Dec-19-19 11:14 | Dec-19-19 11:20 | Dec-19-19 11:40  | Dec-19-19 11:47 | Dec-19-19 11:53 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Chloride                           |                   | <5.05 5.05       | 729 4.96        | 1360 25.0       | 345 5.00         | 1000 5.00       | 4180 25.0       |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Dec-18-19 16:00  | Dec-18-19 16:00 | Dec-18-19 16:00 | Dec-18-19 16:00  | Dec-18-19 15:00 | Dec-18-19 15:00 |
|                                    | <i>Analyzed:</i>  | Dec-20-19 02:02  | Dec-20-19 05:53 | Dec-20-19 06:14 | Dec-20-19 06:35  | Dec-19-19 06:28 | Dec-19-19 06:48 |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |                   | <49.8 49.8       | 3930 500        | 3090 500        | 1840 249         | 2360 250        | 1350 249        |
| Diesel Range Organics (DRO)        |                   | <49.8 49.8       | 41200 500       | 39700 500       | 16200 249        | 20800 250       | 15400 249       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.8 49.8       | 3440 500        | 3460 500        | 1450 249         | 1930 250        | 1460 249        |
| Total TPH                          |                   | <49.8 49.8       | 48600 500       | 46300 500       | 19500 249        | 25100 250       | 18200 249       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 646725-043      | 646725-044       | 646725-045       | 646725-046      | 646725-047      | 646725-048       |
|------------------------------------|-------------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|
|                                    | <b>Field Id:</b>  | S-36 (0-0.5')   | S-37 (0-0.5')    | S-37 (0.5-1')    | S-38 (0-0.5')   | S-39 (0.5-1')   | S-40 (0-0.5')    |
|                                    | <b>Depth:</b>     |                 |                  |                  |                 |                 |                  |
|                                    | <b>Matrix:</b>    | SOIL            | SOIL             | SOIL             | SOIL            | SOIL            | SOIL             |
|                                    | <b>Sampled:</b>   | Dec-16-19 16:29 | Dec-16-19 16:33  | Dec-16-19 16:30  | Dec-16-19 16:34 | Dec-16-19 16:35 | Dec-16-19 16:37  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | Dec-24-19 14:15 | Dec-26-19 17:00  | Dec-26-19 17:00  | Dec-24-19 14:15 | Dec-24-19 14:15 | Dec-29-19 12:00  |
|                                    | <b>Analyzed:</b>  | Dec-26-19 15:33 | Dec-27-19 13:03  | Dec-27-19 13:24  | Dec-26-19 17:32 | Dec-26-19 17:52 | Dec-29-19 18:57  |
|                                    | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Benzene                            |                   | <0.0996 0.0996  | <0.00202 0.00202 | <0.00200 0.00200 | <0.0998 0.0998  | <0.0996 0.0996  | <0.00199 0.00199 |
| Toluene                            |                   | 2.25 0.0996     | <0.00202 0.00202 | <0.00200 0.00200 | 0.127 0.0998    | 1.04 0.0996     | <0.00199 0.00199 |
| Ethylbenzene                       |                   | 5.37 0.0996     | <0.00202 0.00202 | <0.00200 0.00200 | 0.401 0.0998    | 5.23 0.0996     | <0.00199 0.00199 |
| m,p-Xylenes                        |                   | 10.9 0.199      | <0.00403 0.00403 | <0.00400 0.00400 | 1.08 0.200      | 10.6 0.199      | <0.00398 0.00398 |
| o-Xylene                           |                   | 5.20 0.0996     | <0.00202 0.00202 | <0.00200 0.00200 | 1.39 0.0998     | 5.70 0.0996     | <0.00199 0.00199 |
| Total Xylenes                      |                   | 16.1 0.0996     | <0.00202 0.00202 | <0.00200 0.00200 | 2.47 0.0998     | 16.3 0.0996     | <0.00199 0.00199 |
| Total BTEX                         |                   | 23.7 0.0996     | <0.00202 0.00202 | <0.00200 0.00200 | 3.00 0.0998     | 22.6 0.0996     | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | Dec-19-19 09:00 | Dec-19-19 09:00  | Dec-19-19 09:00  | Dec-19-19 09:00 | Dec-19-19 10:40 | Dec-19-19 10:40  |
|                                    | <b>Analyzed:</b>  | Dec-19-19 12:00 | Dec-19-19 12:07  | Dec-19-19 12:13  | Dec-19-19 12:20 | Dec-19-19 14:26 | Dec-19-19 14:42  |
|                                    | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Chloride                           |                   | 206 5.04        | <4.96 4.96       | <5.00 5.00       | 1820 25.1       | 1260 5.00       | <4.98 4.98       |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | Dec-18-19 15:00 | Dec-18-19 15:00  | Dec-18-19 15:00  | Dec-18-19 15:00 | Dec-18-19 15:00 | Dec-18-19 15:00  |
|                                    | <b>Analyzed:</b>  | Dec-19-19 07:09 | Dec-19-19 04:43  | Dec-19-19 05:04  | Dec-19-19 07:30 | Dec-19-19 07:51 | Dec-19-19 05:25  |
|                                    | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | 1990 249        | <50.0 50.0       | <50.0 50.0       | 1040 250        | 1920 250        | <49.9 49.9       |
| Diesel Range Organics (DRO)        |                   | 23500 249       | <50.0 50.0       | <50.0 50.0       | 24400 250       | 23500 250       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |                   | 2120 249        | <50.0 50.0       | <50.0 50.0       | 2430 250        | 2340 250        | <49.9 49.9       |
| Total TPH                          |                   | 27600 249       | <50.0 50.0       | <50.0 50.0       | 27900 250       | 27800 250       | <49.9 49.9       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 646725

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat #1



Project Id: 19-0180-08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Wed Dec-18-19 08:36 am  
Report Date: 31-DEC-19  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>          | <b>Lab Id:</b>    | 646725-049       | 646725-050       | 646725-051       | 646725-052       | 646725-053       | 646725-054       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <b>Field Id:</b>  | S-40 (0.5-1')    | S-41 (0.0-5')    | S-42 (0-0.5')    | S-42 (0.5-1')    | S-43 (0-0.5')    | S-43 (0.5-1')    |
|                                    | <b>Depth:</b>     |                  |                  |                  |                  |                  |                  |
|                                    | <b>Matrix:</b>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <b>Sampled:</b>   | Dec-16-19 16:40  | Dec-16-19 16:40  | Dec-16-19 16:42  | Dec-16-19 16:43  | Dec-13-19 16:44  | Dec-13-19 16:45  |
| <b>BTEX by EPA 8021B</b>           | <b>Extracted:</b> | Dec-24-19 14:15  | Dec-24-19 14:15  | Dec-24-19 14:15  | Dec-24-19 14:15  | Dec-24-19 14:15  | Dec-24-19 14:15  |
|                                    | <b>Analyzed:</b>  | Dec-26-19 18:32  | Dec-26-19 18:52  | Dec-26-19 11:56  | Dec-26-19 19:13  | Dec-26-19 19:33  | Dec-26-19 19:53  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |                   | <0.00198 0.00198 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Toluene                            |                   | <0.00198 0.00198 | 0.00389 0.00200  | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Ethylbenzene                       |                   | <0.00198 0.00198 | 0.0198 0.00200   | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| m,p-Xylenes                        |                   | <0.00396 0.00396 | 0.0185 0.00401   | <0.00399 0.00399 | <0.00402 0.00402 | <0.00402 0.00402 | <0.00398 0.00398 |
| o-Xylene                           |                   | <0.00198 0.00198 | 0.145 0.00200    | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Total Xylenes                      |                   | <0.00198 0.00198 | 0.164 0.00200    | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Total BTEX                         |                   | <0.00198 0.00198 | 0.187 0.00200    | <0.00200 0.00200 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>         | <b>Extracted:</b> | Dec-19-19 10:40  | Dec-19-19 10:40  | Dec-19-19 10:40  | Dec-19-19 10:40  | Dec-19-19 10:40  | Dec-19-19 10:40  |
|                                    | <b>Analyzed:</b>  | Dec-19-19 14:47  | Dec-19-19 14:52  | Dec-19-19 14:57  | Dec-19-19 15:13  | Dec-19-19 15:18  | Dec-19-19 15:23  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | <4.99 4.99       | 2560 24.8        | <5.00 5.00       | <5.00 5.00       | <5.03 5.03       | 26.9 5.01        |
| <b>TPH by SW8015 Mod</b>           | <b>Extracted:</b> | Dec-18-19 15:00  | Dec-18-19 15:00  | Dec-19-19 12:00  | Dec-19-19 12:00  | Dec-19-19 12:00  | Dec-19-19 12:00  |
|                                    | <b>Analyzed:</b>  | Dec-19-19 05:46  | Dec-19-19 06:07  | Dec-19-19 13:25  | Dec-19-19 14:29  | Dec-19-19 14:50  | Dec-19-19 15:11  |
|                                    | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | <49.9 49.9       | 57.8 50.0        | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       |
| Diesel Range Organics (DRO)        |                   | <49.9 49.9       | 951 50.0         | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.9 49.9       | 99.4 50.0        | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       |
| Total TPH                          |                   | <49.9 49.9       | 1110 50.0        | <49.9 49.9       | <50.0 50.0       | <49.9 49.9       | <49.8 49.8       |

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Holly Taylor  
Project Manager



# Analytical Report 646725

for  
**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Blineberry Sat #1**

**19-0180-08**

**31-DEC-19**

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)



31-DEC-19

Project Manager: **Mark Larson**

**Larson and Associates, Inc.**

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **646725**

**Blineberry Sat #1**

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) 646725. 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. 646725 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

---

**Holly Taylor**

Project Manager

***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 646725

Larson and Associates, Inc., Midland, TX

Blineberry Sat #1

| Sample Id     | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---------------|--------|----------------|--------------|---------------|
| S-1 (0-0.5')  | S      | 12-13-19 12:51 |              | 646725-001    |
| S-1 (0.5-1')  | S      | 12-13-19 12:54 |              | 646725-002    |
| S-2 (0-0.5')  | S      | 12-13-19 12:59 |              | 646725-003    |
| S-3 (0-0.5')  | S      | 12-13-19 13:03 |              | 646725-004    |
| S-4 (0-0.5')  | S      | 12-13-19 13:08 |              | 646725-005    |
| S-5 (0-0.5')  | S      | 12-13-19 13:11 |              | 646725-006    |
| S-5 (0.5-1')  | S      | 12-13-19 13:12 |              | 646725-007    |
| S-6 (0-0.5')  | S      | 12-13-19 13:15 |              | 646725-008    |
| S-7 (0-0.5')  | S      | 12-13-19 13:16 |              | 646725-009    |
| S-7 (0.5-1')  | S      | 12-13-19 13:17 |              | 646725-010    |
| S-8 (0-0.5')  | S      | 12-13-19 13:20 |              | 646725-011    |
| S-9 (0-0.5')  | S      | 12-13-19 13:23 |              | 646725-012    |
| S-10 (0-0.5') | S      | 12-13-19 13:26 |              | 646725-013    |
| S-11 (0-0.5') | S      | 12-13-19 13:27 |              | 646725-014    |
| S-12 (0-0.5') | S      | 12-13-19 13:35 |              | 646725-015    |
| S-13 (0-0.5') | S      | 12-13-19 13:38 |              | 646725-016    |
| S-14 (0-0.5') | S      | 12-13-19 13:39 |              | 646725-017    |
| S-15 (0-0.5') | S      | 12-13-19 14:00 |              | 646725-018    |
| S-16 (0-0.5') | S      | 12-13-19 14:01 |              | 646725-019    |
| S-17 (0-0.5') | S      | 12-13-19 14:02 |              | 646725-020    |
| S-18 (0-0.5') | S      | 12-13-19 14:10 |              | 646725-021    |
| S-18 (0.5-1') | S      | 12-13-19 14:11 |              | 646725-022    |
| S-19 (0-0.5') | S      | 12-13-19 14:13 |              | 646725-023    |
| S-20 (0-0.5') | S      | 12-13-19 14:15 |              | 646725-024    |
| S-21 (0-0.5') | S      | 12-13-19 14:17 |              | 646725-025    |
| S-22 (0-0.5') | S      | 12-13-19 14:18 |              | 646725-026    |
| S-23 (0-0.5') | S      | 12-13-19 14:20 |              | 646725-027    |
| S-24 (0-0.5') | S      | 12-13-19 14:25 |              | 646725-028    |
| S-24 (0.5-1') | S      | 12-13-19 12:26 |              | 646725-029    |
| S-25 (0-0.5') | S      | 12-13-19 12:29 |              | 646725-030    |
| S-26 (0-0.5') | S      | 12-13-19 14:30 |              | 646725-031    |
| S-27 (0-0.5') | S      | 12-13-19 14:33 |              | 646725-032    |
| S-28 (0-0.5') | S      | 12-13-19 14:35 |              | 646725-033    |
| S-29 (0-0.5') | S      | 12-13-19 14:40 |              | 646725-034    |
| S-29 (0.5-1') | S      | 12-13-19 14:45 |              | 646725-035    |
| S-30 (0-0.5') | S      | 12-13-19 14:47 |              | 646725-036    |
| S-30 (0.5-1') | S      | 12-13-19 14:50 |              | 646725-037    |
| S-31 (0-0.5') | S      | 12-16-19 16:18 |              | 646725-038    |
| S-32 (0-0.5') | S      | 12-16-19 16:20 |              | 646725-039    |
| S-33 (0-0.5') | S      | 12-16-19 16:22 |              | 646725-040    |
| S-34 (0-0.5') | S      | 12-16-19 16:25 |              | 646725-041    |
| S-35 (0-0.5') | S      | 12-16-19 16:28 |              | 646725-042    |
| S-36 (0-0.5') | S      | 12-16-19 16:29 |              | 646725-043    |



## Sample Cross Reference 646725

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

## Blineberry Sat #1

|               |   |                |            |
|---------------|---|----------------|------------|
| S-37 (0-0.5') | S | 12-16-19 16:33 | 646725-044 |
| S-37 (0.5-1') | S | 12-16-19 16:30 | 646725-045 |
| S-38 (0-0.5') | S | 12-16-19 16:34 | 646725-046 |
| S-39 (0.5-1') | S | 12-16-19 16:35 | 646725-047 |
| S-40 (0-0.5') | S | 12-16-19 16:37 | 646725-048 |
| S-40 (0.5-1') | S | 12-16-19 16:40 | 646725-049 |
| S-41 (0.0.5') | S | 12-16-19 16:40 | 646725-050 |
| S-42 (0-0.5') | S | 12-16-19 16:42 | 646725-051 |
| S-42 (0.5-1') | S | 12-16-19 16:43 | 646725-052 |
| S-43 (0-0.5') | S | 12-13-19 16:44 | 646725-053 |
| S-43 (0.5-1') | S | 12-13-19 16:45 | 646725-054 |



**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat #1**Project ID: 19-0180-08  
Work Order Number(s): 646725Report Date: 31-DEC-19  
Date Received: 12/18/2019**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3111148 TPH by SW8015 Mod

Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 646725-050.

Batch: LBA-3111239 Chloride by EPA 300

Lab Sample ID 646725-037 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 646725-027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045, -046.

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

Batch: LBA-3111262 Chloride by EPA 300

Lab Sample ID 646737-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 646725-047, -048, -049, -050, -051, -052, -053, -054.

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

Batch: LBA-3111374 BTEX by EPA 8021B

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

Samples affected are: 646641-001 S, 646641-001 SD.

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

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat #1**Project ID: 19-0180-08  
Work Order Number(s): 646725Report Date: 31-DEC-19  
Date Received: 12/18/2019

Batch: LBA-3111704 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 646725-018 S, 646725-018 SD.

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

Samples affected are: 646725-018 S, 646725-018 SD, 646725-008, 646725-020, 646725-012, 646725-013, 646725-014, 646725-015, 646725-016, 646725-017, 646725-018, 646725-019, 646725-006, 646725-005, 646725-004, 646725-003, 646725-011.

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

Lab Sample ID 646725-018 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene, Ethylbenzene, Toluene, 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: 646725-003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021.

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

Due to matrix, initial run for the samples was performed at a dilution.

Batch: LBA-3111767 BTEX by EPA 8021B

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 646725-042, -043, -046, -047, -049, -050, -051, -052, -053, -054

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

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

Samples affected are: 646725-042, 646725-043, 646725-050, 646725-047, 646725-046.

Lab Sample ID 646725-051 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Benzene, Ethylbenzene, Toluene, 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: 646725-042, -043, -046, -047, -049, -050, -051, -052, -053, -054.

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

Batch: LBA-3111859 BTEX by EPA 8021B

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

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat #1**Project ID: 19-0180-08  
Work Order Number(s): 646725Report Date: 31-DEC-19  
Date Received: 12/18/2019

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Batch: LBA-3111937 BTEX by EPA 8021B

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

Samples affected are: 646725-026, 646725-030, 646725-031, 646725-032, 646725-041, 646725-034, 646725-038, 646725-039, 646725-040, 646725-033.

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

Lab Sample ID 646725-035 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Ethylbenzene, Toluene, 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: 646725-022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041.

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

Due to matrix, the initial run for sample 024 was performed at a dilution of 100X.

Batch: LBA-3111947 BTEX by EPA 8021B

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



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-001

Date Collected: 12.13.19 12.51

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.18.19 21.54 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 13.25 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 12.19.19 13.25 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 12.19.19 13.25 |      |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-001

Date Collected: 12.13.19 12.51

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.21.19 13.00

Basis: Wet Weight

Seq Number: 3111374

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.29       | 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        | 12.21.19 23.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 70-130        | 12.21.19 23.29       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-002

Date Collected: 12.13.19 12.54

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.18.19 23.07 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 14.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 12.19.19 14.29 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 12.19.19 14.29 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-002

Date Collected: 12.13.19 12.54

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.21.19 13.00

Basis: Wet Weight

Seq Number: 3111374

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 12.21.19 23.49       | 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          | 89                | %            | 70-130        | 12.21.19 23.49       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 72                | %            | 70-130        | 12.21.19 23.49       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-003

Date Collected: 12.13.19 12.59

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 304    | 5.04 | mg/kg | 12.18.19 20.13 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 7670   | 500 | mg/kg | 12.19.19 16.14 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 33900  | 500 | mg/kg | 12.19.19 16.14 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2910   | 500 | mg/kg | 12.19.19 16.14 |      | 10  |
| Total TPH                          | PHC635     | 44500  | 500 | mg/kg | 12.19.19 16.14 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 122        | %     | 70-135 | 12.19.19 16.14 |      |
| o-Terphenyl    | 84-15-1    | 122        | %     | 70-135 | 12.19.19 16.14 |      |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-003

Date Collected: 12.13.19 12.59

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>1.42</b>       | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>27.5</b>       | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>26.0</b>       | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>45.0</b>       | 0.398        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>18.5</b>       | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>63.5</b>       | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>118</b>        | 0.199        | mg/kg         | 12.24.19 13.52       |             | 100 |
| <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          | 199               | %            | 70-130        | 12.24.19 13.52       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 97                | %            | 70-130        | 12.24.19 13.52       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-004

Date Collected: 12.13.19 13.03

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5430   | 25.1 | mg/kg | 12.18.19 23.14 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 5790   | 499 | mg/kg | 12.19.19 16.35 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 19000  | 499 | mg/kg | 12.19.19 16.35 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1700   | 499 | mg/kg | 12.19.19 16.35 |      | 10  |
| Total TPH                          | PHC635     | 26500  | 499 | mg/kg | 12.19.19 16.35 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 12.19.19 16.35 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 12.19.19 16.35 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-004

Date Collected: 12.13.19 13.03

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>1.27</b>       | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>7.38</b>       | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>1.38</b>       | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>64.2</b>       | 0.399        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>27.1</b>       | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>91.3</b>       | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>101</b>        | 0.200        | mg/kg         | 12.24.19 14.13       |             | 100 |
| <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          | 228               | %            | 70-130        | 12.24.19 14.13       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 12.24.19 14.13       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-005

Date Collected: 12.13.19 13.08

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2960   | 25.2 | mg/kg | 12.18.19 23.22 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3700       | 500   | mg/kg  | 12.19.19 16.56 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 22200      | 500   | mg/kg  | 12.19.19 16.56 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1980       | 500   | mg/kg  | 12.19.19 16.56 |      | 10  |
| Total TPH                          | PHC635     | 27900      | 500   | mg/kg  | 12.19.19 16.56 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 105        | %     | 70-135 | 12.19.19 16.56 |      |     |
| o-Terphenyl                        | 84-15-1    | 110        | %     | 70-135 | 12.19.19 16.56 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-005

Date Collected: 12.13.19 13.08

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>2.69</b>       | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>6.54</b>       | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>9.03</b>       | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>127</b>        | 1.01         | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>51.6</b>       | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>179</b>        | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>197</b>        | 0.505        | mg/kg         | 12.24.19 14.33       |             | 50  |
| <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          | 187               | %            | 70-130        | 12.24.19 14.33       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 12.24.19 14.33       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-006

Date Collected: 12.13.19 13.11

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 12.18.19 18.30

Basis: Wet Weight

Seq Number: 3111053

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.01  | 5.01 | mg/kg | 12.18.19 23.29 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 83         | %     | 70-135 | 12.19.19 14.50 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 12.19.19 14.50 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-006

Date Collected: 12.13.19 13.11

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.07       | 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          | 94                | %            | 70-130        | 12.26.19 23.07       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 12.26.19 23.07       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-007

Date Collected: 12.13.19 13.12

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.96  | 4.96 | mg/kg | 12.19.19 10.23 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 15.11 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 15.11 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 15.11 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 15.11 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 12.19.19 15.11 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 12.19.19 15.11 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-007

Date Collected: 12.13.19 13.12

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 12.26.19 23.28       | 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          | 110               | %            | 70-130        | 12.26.19 23.28       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 95                | %            | 70-130        | 12.26.19 23.28       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-008

Date Collected: 12.13.19 13.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3720   | 25.0 | mg/kg | 12.19.19 10.45 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4440   | 498 | mg/kg | 12.19.19 17.17 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 29800  | 498 | mg/kg | 12.19.19 17.17 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2820   | 498 | mg/kg | 12.19.19 17.17 |      | 10  |
| Total TPH                          | PHC635     | 37100  | 498 | mg/kg | 12.19.19 17.17 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 12.19.19 17.17 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-135 | 12.19.19 17.17 |      |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-008

Date Collected: 12.13.19 13.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.676</b>      | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>8.27</b>       | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>3.50</b>       | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>30.6</b>       | 0.398        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>13.0</b>       | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>43.6</b>       | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>56.0</b>       | 0.199        | mg/kg         | 12.24.19 15.33       |             | 100 |
| <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          | 93                | %            | 70-130        | 12.24.19 15.33       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 169               | %            | 70-130        | 12.24.19 15.33       | **          |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-009

Date Collected: 12.13.19 13.16

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 12.19.19 10.52 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 15.32 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 15.32 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 15.32 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 15.32 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 12.19.19 15.32 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 12.19.19 15.32 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-009

Date Collected: 12.13.19 13.16

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.26.19 23.48       | 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          | 111               | %            | 70-130        | 12.26.19 23.48       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 70-130        | 12.26.19 23.48       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-010

Date Collected: 12.13.19 13.17

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 12.05 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 15.53 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 15.53 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 15.53 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 15.53 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 12.19.19 15.53 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 12.19.19 15.53 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-010

Date Collected: 12.13.19 13.17

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00396          | 0.00396      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 12.27.19 00.08       | 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          | 106               | %            | 70-130        | 12.27.19 00.08       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 113               | %            | 70-130        | 12.27.19 00.08       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-011

Date Collected: 12.13.19 13.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6010   | 50.4 | mg/kg | 12.19.19 11.00 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 7900   | 499 | mg/kg | 12.19.19 17.59 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 32300  | 499 | mg/kg | 12.19.19 17.59 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2730   | 499 | mg/kg | 12.19.19 17.59 |      | 10  |
| Total TPH                          | PHC635     | 42900  | 499 | mg/kg | 12.19.19 17.59 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 124        | %     | 70-135 | 12.19.19 17.59 |      |
| o-Terphenyl    | 84-15-1    | 122        | %     | 70-135 | 12.19.19 17.59 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-011

Date Collected: 12.13.19 13.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>4.84</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>22.9</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>10.2</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>36.3</b>       | 0.400        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>14.2</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>50.5</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>88.4</b>       | 0.200        | mg/kg         | 12.24.19 16.33       |             | 100 |
| <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          | 167               | %            | 70-130        | 12.24.19 16.33       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 12.24.19 16.33       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-012

Date Collected: 12.13.19 13.23

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5080   | 25.1 | mg/kg | 12.19.19 11.07 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 6250       | 499   | mg/kg  | 12.19.19 18.20 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20900      | 499   | mg/kg  | 12.19.19 18.20 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1910       | 499   | mg/kg  | 12.19.19 18.20 |      | 10  |
| Total TPH                          | PHC635     | 29100      | 499   | mg/kg  | 12.19.19 18.20 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 114        | %     | 70-135 | 12.19.19 18.20 |      |     |
| o-Terphenyl                        | 84-15-1    | 106        | %     | 70-135 | 12.19.19 18.20 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-012

Date Collected: 12.13.19 13.23

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>2.06</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>11.5</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>2.38</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>47.1</b>       | 0.401        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>18.2</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>65.3</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>81.2</b>       | 0.200        | mg/kg         | 12.24.19 17.52       |             | 100 |
| <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        | 12.24.19 17.52       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 171               | %            | 70-130        | 12.24.19 17.52       | **          |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-013

Date Collected: 12.13.19 13.26

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3350   | 25.3 | mg/kg | 12.19.19 11.29 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 7990   | 500 | mg/kg | 12.19.19 18.41 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 27200  | 500 | mg/kg | 12.19.19 18.41 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2410   | 500 | mg/kg | 12.19.19 18.41 |      | 10  |
| Total TPH                          | PHC635     | 37600  | 500 | mg/kg | 12.19.19 18.41 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 123        | %     | 70-135 | 12.19.19 18.41 |      |
| o-Terphenyl    | 84-15-1    | 112        | %     | 70-135 | 12.19.19 18.41 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

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

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-013

Date Collected: 12.13.19 13.26

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>5.25</b>       | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>33.9</b>       | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>34.0</b>       | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>56.0</b>       | 0.398        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>23.4</b>       | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>79.4</b>       | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>153</b>        | 0.199        | mg/kg         | 12.24.19 18.12       |             | 100 |
| <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          | 257               | %            | 70-130        | 12.24.19 18.12       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 12.24.19 18.12       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-11 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-014

Date Collected: 12.13.19 13.27

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2570   | 24.9 | mg/kg | 12.19.19 11.36 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4170   | 499 | mg/kg | 12.19.19 19.03 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20400  | 499 | mg/kg | 12.19.19 19.03 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1820   | 499 | mg/kg | 12.19.19 19.03 |      | 10  |
| Total TPH                          | PHC635     | 26400  | 499 | mg/kg | 12.19.19 19.03 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 12.19.19 19.03 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 12.19.19 19.03 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-11 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-014

Date Collected: 12.13.19 13.27

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.738</b>      | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>2.72</b>       | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.872</b>      | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>16.6</b>       | 0.200        | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>6.85</b>       | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>23.5</b>       | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>27.8</b>       | 0.0998       | mg/kg         | 12.24.19 18.32       |             | 50  |
| <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          | 173               | %            | 70-130        | 12.24.19 18.32       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 98                | %            | 70-130        | 12.24.19 18.32       |             |     |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-12 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-015

Date Collected: 12.13.19 13.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3200   | 25.0 | mg/kg | 12.19.19 11.43 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3190   | 499 | mg/kg | 12.19.19 19.24 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 17900  | 499 | mg/kg | 12.19.19 19.24 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1650   | 499 | mg/kg | 12.19.19 19.24 |      | 10  |
| Total TPH                          | PHC635     | 22700  | 499 | mg/kg | 12.19.19 19.24 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 12.19.19 19.24 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 12.19.19 19.24 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-12 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-015

Date Collected: 12.13.19 13.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>2.07</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>18.9</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>15.4</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>26.9</b>       | 0.402        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>11.4</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>38.3</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>74.7</b>       | 0.201        | mg/kg         | 12.24.19 18.53       |             | 100 |
| <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          | 169               | %            | 70-130        | 12.24.19 18.53       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 98                | %            | 70-130        | 12.24.19 18.53       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-13 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-016

Date Collected: 12.13.19 13.38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1850   | 24.8 | mg/kg | 12.19.19 11.51 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 9760   | 499 | mg/kg | 12.19.19 19.45 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 35000  | 499 | mg/kg | 12.19.19 19.45 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2990   | 499 | mg/kg | 12.19.19 19.45 |      | 10  |
| Total TPH                          | PHC635     | 47800  | 499 | mg/kg | 12.19.19 19.45 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 127        | %     | 70-135 | 12.19.19 19.45 |      |
| o-Terphenyl    | 84-15-1    | 113        | %     | 70-135 | 12.19.19 19.45 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-13 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-016

Date Collected: 12.13.19 13.38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>4.64</b>       | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>38.5</b>       | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>26.8</b>       | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>66.2</b>       | 0.402        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>26.6</b>       | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>92.8</b>       | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>163</b>        | 0.201        | mg/kg         | 12.24.19 19.13       |             | 100 |
| <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          | 236               | %            | 70-130        | 12.24.19 19.13       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 12.24.19 19.13       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-14 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-017

Date Collected: 12.13.19 13.39

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1240   | 5.02 | mg/kg | 12.19.19 11.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 10800  | 500 | mg/kg | 12.19.19 20.06 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 37500  | 500 | mg/kg | 12.19.19 20.06 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3240   | 500 | mg/kg | 12.19.19 20.06 |      | 10  |
| Total TPH                          | PHC635     | 51500  | 500 | mg/kg | 12.19.19 20.06 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 126        | %     | 70-135 | 12.19.19 20.06 |      |
| o-Terphenyl    | 84-15-1    | 120        | %     | 70-135 | 12.19.19 20.06 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-14 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-017

Date Collected: 12.13.19 13.39

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>5.80</b>       | 0.200        | mg/kg         | 12.24.19 19.33       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>87.9</b>       | 0.501        | mg/kg         | 12.26.19 12.16       | D           | 250 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>88.0</b>       | 0.501        | mg/kg         | 12.26.19 12.16       | D           | 250 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>173</b>        | 1.00         | mg/kg         | 12.26.19 12.16       | D           | 250 |
| <b>o-Xylene</b>      | 95-47-6           | <b>33.9</b>       | 0.200        | mg/kg         | 12.24.19 19.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>207</b>        | 0.200        | mg/kg         | 12.26.19 12.16       |             | 250 |
| <b>Total BTEX</b>    |                   | <b>389</b>        | 0.200        | mg/kg         | 12.26.19 12.16       |             | 250 |
| <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          | 318               | %            | 70-130        | 12.24.19 19.33       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 12.24.19 19.33       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-15 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-018

Date Collected: 12.13.19 14.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 424    | 4.98 | mg/kg | 12.19.19 12.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2960   | 499 | mg/kg | 12.19.19 20.26 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20800  | 499 | mg/kg | 12.19.19 20.26 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2010   | 499 | mg/kg | 12.19.19 20.26 |      | 10  |
| Total TPH                          | PHC635     | 25800  | 499 | mg/kg | 12.19.19 20.26 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 12.19.19 20.26 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 12.19.19 20.26 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-15 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-018

Date Collected: 12.13.19 14.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>2.02</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>15.7</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>13.8</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>23.5</b>       | 0.199        | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>9.79</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>33.3</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>64.8</b>       | 0.0996       | mg/kg         | 12.24.19 19.53       |             | 50  |
| <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          | 234               | %            | 70-130        | 12.24.19 19.53       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 12.24.19 19.53       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-16 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-019

Date Collected: 12.13.19 14.01

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3890   | 24.8 | mg/kg | 12.19.19 12.34 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2770   | 499 | mg/kg | 12.19.19 20.47 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 16900  | 499 | mg/kg | 12.19.19 20.47 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1600   | 499 | mg/kg | 12.19.19 20.47 |      | 10  |
| Total TPH                          | PHC635     | 21300  | 499 | mg/kg | 12.19.19 20.47 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 12.19.19 20.47 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 12.19.19 20.47 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-16 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-019

Date Collected: 12.13.19 14.01

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>1.86</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>16.0</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>11.3</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>33.3</b>       | 0.399        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>13.7</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>47.0</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>76.2</b>       | 0.200        | mg/kg         | 12.24.19 20.13       |             | 100 |
| <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          | 98                | %            | 70-130        | 12.24.19 20.13       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 198               | %            | 70-130        | 12.24.19 20.13       | **          |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-17 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-020

Date Collected: 12.13.19 14.02

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3320   | 24.8 | mg/kg | 12.19.19 12.56 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111277

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4460   | 500 | mg/kg | 12.19.19 21.08 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 22900  | 500 | mg/kg | 12.19.19 21.08 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1960   | 500 | mg/kg | 12.19.19 21.08 |      | 10  |
| Total TPH                          | PHC635     | 29300  | 500 | mg/kg | 12.19.19 21.08 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 123        | %     | 70-135 | 12.19.19 21.08 |      |
| o-Terphenyl    | 84-15-1    | 112        | %     | 70-135 | 12.19.19 21.08 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-17 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-020

Date Collected: 12.13.19 14.02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 12.00

Basis: Wet Weight

Seq Number: 3111704

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>6.26</b>       | 0.100        | mg/kg         | 12.24.19 20.33       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>37.1</b>       | 0.201        | mg/kg         | 12.26.19 12.36       | D           | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>31.6</b>       | 0.201        | mg/kg         | 12.26.19 12.36       | D           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>36.5</b>       | 0.201        | mg/kg         | 12.24.19 20.33       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>15.2</b>       | 0.100        | mg/kg         | 12.24.19 20.33       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>51.7</b>       | 0.100        | mg/kg         | 12.24.19 20.33       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>127</b>        | 0.100        | mg/kg         | 12.26.19 12.36       |             | 100 |
| <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          | 105               | %            | 70-130        | 12.24.19 20.33       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 312               | %            | 70-130        | 12.24.19 20.33       | **          |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-18 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-021

Date Collected: 12.13.19 14.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 12.19.19 13.03 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 22.52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 22.52 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 22.52 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 22.52 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 12.19.19 22.52 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 12.19.19 22.52 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-18 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-021

Date Collected: 12.13.19 14.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 12.27.19 00.29       | 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          | 112               | %            | 70-130        | 12.27.19 00.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 100               | %            | 70-130        | 12.27.19 00.29       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-18 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-022

Date Collected: 12.13.19 14.11

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.96  | 4.96 | mg/kg | 12.19.19 13.10 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 23.55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 23.55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 23.55 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 23.55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 12.19.19 23.55 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 12.19.19 23.55 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-18 (0.5-1')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-022

Date Collected: 12.13.19 14.11

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 12.27.19 13.52       | 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          | 92                | %            | 70-130        | 12.27.19 13.52       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 12.27.19 13.52       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-19 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-023

Date Collected: 12.13.19 14.13

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3270   | 25.1 | mg/kg | 12.19.19 13.18 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2740       | 250   | mg/kg  | 12.20.19 02.23 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 18800      | 250   | mg/kg  | 12.20.19 02.23 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1530       | 250   | mg/kg  | 12.20.19 02.23 |      | 5   |
| Total TPH                          | PHC635     | 23100      | 250   | mg/kg  | 12.20.19 02.23 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 113        | %     | 70-135 | 12.20.19 02.23 |      |     |
| o-Terphenyl                        | 84-15-1    | 112        | %     | 70-135 | 12.20.19 02.23 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-19 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-023

Date Collected: 12.13.19 14.13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.200            | 0.200        | mg/kg         | 12.27.19 14.12       | U           | 100 |
| Toluene              | 108-88-3          | <0.200            | 0.200        | mg/kg         | 12.27.19 14.12       | U           | 100 |
| Ethylbenzene         | 100-41-4          | <0.200            | 0.200        | mg/kg         | 12.27.19 14.12       | U           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.633</b>      | 0.400        | mg/kg         | 12.27.19 14.12       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.351</b>      | 0.200        | mg/kg         | 12.27.19 14.12       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.984</b>      | 0.200        | mg/kg         | 12.27.19 14.12       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>0.984</b>      | 0.200        | mg/kg         | 12.27.19 14.12       |             | 100 |
| <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          | 119               | %            | 70-130        | 12.27.19 14.12       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 87                | %            | 70-130        | 12.27.19 14.12       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-20 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-024

Date Collected: 12.13.19 14.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2750   | 25.0 | mg/kg | 12.19.19 13.25 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2010   | 499 | mg/kg | 12.20.19 02.44 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 28500  | 499 | mg/kg | 12.20.19 02.44 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2470   | 499 | mg/kg | 12.20.19 02.44 |      | 10  |
| Total TPH                          | PHC635     | 33000  | 499 | mg/kg | 12.20.19 02.44 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 120        | %     | 70-135 | 12.20.19 02.44 |      |
| o-Terphenyl    | 84-15-1    | 112        | %     | 70-135 | 12.20.19 02.44 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-20 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-024

Date Collected: 12.13.19 14.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| Toluene              | 108-88-3          | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| Ethylbenzene         | 100-41-4          | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| m,p-Xylenes          | 179601-23-1       | <0.399            | 0.399        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| o-Xylene             | 95-47-6           | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| Total Xylenes        | 1330-20-7         | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| Total BTEX           |                   | <0.200            | 0.200        | mg/kg         | 12.27.19 14.32       | U           | 100 |
| <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          | 88                | %            | 70-130        | 12.27.19 14.32       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 70-130        | 12.27.19 14.32       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-21 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-025

Date Collected: 12.13.19 14.17

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3190   | 25.2 | mg/kg | 12.19.19 13.32 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3410       | 498   | mg/kg  | 12.20.19 03.25 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 38000      | 498   | mg/kg  | 12.20.19 03.25 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3210       | 498   | mg/kg  | 12.20.19 03.25 |      | 10  |
| Total TPH                          | PHC635     | 44600      | 498   | mg/kg  | 12.20.19 03.25 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 126        | %     | 70-135 | 12.20.19 03.25 |      |     |
| o-Terphenyl                        | 84-15-1    | 127        | %     | 70-135 | 12.20.19 03.25 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-21 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-025

Date Collected: 12.13.19 14.17

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0996           | 0.0996       | mg/kg         | 12.27.19 14.52       | U           | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>0.141</b>      | 0.0996       | mg/kg         | 12.27.19 14.52       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.179</b>      | 0.0996       | mg/kg         | 12.27.19 14.52       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.574</b>      | 0.199        | mg/kg         | 12.27.19 14.52       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.312</b>      | 0.0996       | mg/kg         | 12.27.19 14.52       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.886</b>      | 0.0996       | mg/kg         | 12.27.19 14.52       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>1.21</b>       | 0.0996       | mg/kg         | 12.27.19 14.52       |             | 50  |
| <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          | 84                | %            | 70-130        | 12.27.19 14.52       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 122               | %            | 70-130        | 12.27.19 14.52       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-22 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-026

Date Collected: 12.13.19 14.18

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 08.30

Basis: Wet Weight

Seq Number: 3111238

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 70.9   | 4.97 | mg/kg | 12.19.19 13.39 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3070   | 500 | mg/kg | 12.20.19 03.46 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 33900  | 500 | mg/kg | 12.20.19 03.46 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2960   | 500 | mg/kg | 12.20.19 03.46 |      | 10  |
| Total TPH                          | PHC635     | 39900  | 500 | mg/kg | 12.20.19 03.46 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 116        | %     | 70-135 | 12.20.19 03.46 |      |
| o-Terphenyl    | 84-15-1    | 115        | %     | 70-135 | 12.20.19 03.46 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-22 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-026

Date Collected: 12.13.19 14.18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0143</b>     | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.312</b>      | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.325</b>      | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.614</b>      | 0.00402      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.311</b>      | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.925</b>      | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>1.58</b>       | 0.00201      | mg/kg         | 12.27.19 15.12       |             | 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          | 88                | %            | 70-130        | 12.27.19 15.12       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 322               | %            | 70-130        | 12.27.19 15.12       | **          |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-23 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-027

Date Collected: 12.13.19 14.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 523    | 5.03 | mg/kg | 12.19.19 09.21 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2180       | 499   | mg/kg  | 12.20.19 04.07 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 31000      | 499   | mg/kg  | 12.20.19 04.07 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2740       | 499   | mg/kg  | 12.20.19 04.07 |      | 10  |
| Total TPH                          | PHC635     | 35900      | 499   | mg/kg  | 12.20.19 04.07 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 119        | %     | 70-135 | 12.20.19 04.07 |      |     |
| o-Terphenyl                        | 84-15-1    | 118        | %     | 70-135 | 12.20.19 04.07 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-23 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-027

Date Collected: 12.13.19 14.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.0994    | 0.0994 | mg/kg | 12.27.19 15.33 | U              | 50   |
| Toluene              | 108-88-3    | <0.0994    | 0.0994 | mg/kg | 12.27.19 15.33 | U              | 50   |
| Ethylbenzene         | 100-41-4    | <0.0994    | 0.0994 | mg/kg | 12.27.19 15.33 | U              | 50   |
| m,p-Xylenes          | 179601-23-1 | 0.548      | 0.199  | mg/kg | 12.27.19 15.33 |                | 50   |
| o-Xylene             | 95-47-6     | 0.363      | 0.0994 | mg/kg | 12.27.19 15.33 |                | 50   |
| Total Xylenes        | 1330-20-7   | 0.911      | 0.0994 | mg/kg | 12.27.19 15.33 |                | 50   |
| Total BTEX           |             | 0.911      | 0.0994 | mg/kg | 12.27.19 15.33 |                | 50   |
| Surrogate            | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene | 460-00-4    | 129        |        | %     | 70-130         | 12.27.19 15.33 |      |
| 1,4-Difluorobenzene  | 540-36-3    | 93         |        | %     | 70-130         | 12.27.19 15.33 |      |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-24 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-028

Date Collected: 12.13.19 14.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.96  | 4.96 | mg/kg | 12.19.19 09.40 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.20.19 00.16 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.20.19 00.16 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.20.19 00.16 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.20.19 00.16 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 12.20.19 00.16 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 12.20.19 00.16 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-24 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-028

Date Collected: 12.13.19 14.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 12.27.19 15.53       | 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          | 127               | %            | 70-130        | 12.27.19 15.53       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 12.27.19 15.53       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-24 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-029

Date Collected: 12.13.19 12.26

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 09.47 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.20.19 00.37 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.20.19 00.37 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.20.19 00.37 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.20.19 00.37 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 12.20.19 00.37 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 12.20.19 00.37 |      |





## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-24 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-029

Date Collected: 12.13.19 12.26

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 12.27.19 16.13       | 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        | 12.27.19 16.13       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 12.27.19 16.13       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-25 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-030

Date Collected: 12.13.19 12.29

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2950   | 25.1 | mg/kg | 12.19.19 09.54 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2990       | 498   | mg/kg  | 12.20.19 04.29 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 38900      | 498   | mg/kg  | 12.20.19 04.29 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3250       | 498   | mg/kg  | 12.20.19 04.29 |      | 10  |
| Total TPH                          | PHC635     | 45100      | 498   | mg/kg  | 12.20.19 04.29 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 120        | %     | 70-135 | 12.20.19 04.29 |      |     |
| o-Terphenyl                        | 84-15-1    | 126        | %     | 70-135 | 12.20.19 04.29 |      |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-25 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-030

Date Collected: 12.13.19 12.29

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.343</b>      | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>6.48</b>       | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>11.4</b>       | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>23.7</b>       | 0.396        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>11.3</b>       | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>35.0</b>       | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>53.2</b>       | 0.198        | mg/kg         | 12.27.19 16.33       |             | 100 |
| <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          | 87                | %            | 70-130        | 12.27.19 16.33       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 164               | %            | 70-130        | 12.27.19 16.33       | **          |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-26 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-031

Date Collected: 12.13.19 14.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 190    | 4.98 | mg/kg | 12.19.19 10.00 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4690   | 500 | mg/kg | 12.20.19 04.50 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 39800  | 500 | mg/kg | 12.20.19 04.50 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3340   | 500 | mg/kg | 12.20.19 04.50 |      | 10  |
| Total TPH                          | PHC635     | 47800  | 500 | mg/kg | 12.20.19 04.50 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 114        | %     | 70-135 | 12.20.19 04.50 |      |
| o-Terphenyl    | 84-15-1    | 119        | %     | 70-135 | 12.20.19 04.50 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-26 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-031

Date Collected: 12.13.19 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.720</b>      | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>15.6</b>       | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>30.2</b>       | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>53.0</b>       | 0.402        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>25.6</b>       | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>78.6</b>       | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>125</b>        | 0.201        | mg/kg         | 12.27.19 16.53       |             | 100 |
| <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          | 223               | %            | 70-130        | 12.27.19 16.53       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 92                | %            | 70-130        | 12.27.19 16.53       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-27 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-032

Date Collected: 12.13.19 14.33

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 529    | 5.01 | mg/kg | 12.19.19 10.20 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4650   | 499 | mg/kg | 12.20.19 05.11 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 38800  | 499 | mg/kg | 12.20.19 05.11 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3380   | 499 | mg/kg | 12.20.19 05.11 |      | 10  |
| Total TPH                          | PHC635     | 46800  | 499 | mg/kg | 12.20.19 05.11 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 121        | %     | 70-135 | 12.20.19 05.11 |      |
| o-Terphenyl    | 84-15-1    | 129        | %     | 70-135 | 12.20.19 05.11 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-27 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-032

Date Collected: 12.13.19 14.33

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>1.03</b>       | 0.101        | mg/kg         | 12.27.19 18.12       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>16.5</b>       | 0.101        | mg/kg         | 12.27.19 18.12       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>31.8</b>       | 0.202        | mg/kg         | 12.30.19 14.06       | KD          | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>58.1</b>       | 0.403        | mg/kg         | 12.30.19 14.06       | KD          | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>18.5</b>       | 0.101        | mg/kg         | 12.27.19 18.12       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>76.6</b>       | 0.101        | mg/kg         | 12.30.19 14.06       | K           | 100 |
| <b>Total BTEX</b>    |                   | <b>126</b>        | 0.101        | mg/kg         | 12.30.19 14.06       | K           | 100 |
| <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          | 299               | %            | 70-130        | 12.27.19 18.12       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 91                | %            | 70-130        | 12.27.19 18.12       |             |     |





# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-28 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-033

Date Collected: 12.13.19 14.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1160   | 5.05 | mg/kg | 12.19.19 10.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2540   | 500 | mg/kg | 12.20.19 05.32 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 35600  | 500 | mg/kg | 12.20.19 05.32 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3340   | 500 | mg/kg | 12.20.19 05.32 |      | 10  |
| Total TPH                          | PHC635     | 41500  | 500 | mg/kg | 12.20.19 05.32 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 122        | %     | 70-135 | 12.20.19 05.32 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-135 | 12.20.19 05.32 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-28 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-033

Date Collected: 12.13.19 14.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.639</b>      | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>5.36</b>       | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>7.54</b>       | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>22.4</b>       | 0.403        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>10.8</b>       | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>33.2</b>       | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>46.7</b>       | 0.202        | mg/kg         | 12.27.19 18.32       |             | 100 |
| <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          | 90                | %            | 70-130        | 12.27.19 18.32       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 188               | %            | 70-130        | 12.27.19 18.32       | **          |     |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-29 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-034

Date Collected: 12.13.19 14.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 12.19.19 10.34 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.20.19 00.58 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.20.19 00.58 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.20.19 00.58 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.20.19 00.58 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 12.20.19 00.58 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 12.20.19 00.58 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-29 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-034

Date Collected: 12.13.19 14.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 12.27.19 18.52       | 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          | 158               | %            | 70-130        | 12.27.19 18.52       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 12.27.19 18.52       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-29 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-035

Date Collected: 12.13.19 14.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.01  | 5.01 | mg/kg | 12.19.19 10.40 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.20.19 01.20 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.20.19 01.20 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.20.19 01.20 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.20.19 01.20 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 12.20.19 01.20 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 12.20.19 01.20 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-29 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-035

Date Collected: 12.13.19 14.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.12       | 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        | 12.27.19 19.12       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 12.27.19 19.12       |             |     |



## Certificate of Analytical Results 646725

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

Blineberry Sat #1

Sample Id: S-30 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-036

Date Collected: 12.13.19 14.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 10.47 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.20.19 01.41 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.20.19 01.41 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.20.19 01.41 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.20.19 01.41 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 90         | %     | 70-135 | 12.20.19 01.41 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 12.20.19 01.41 |      |





# Certificate of Analytical Results 646725

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

### Blineberry Sat #1

Sample Id: **S-30 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-036

Date Collected: 12.13.19 14.47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.32       | 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          | 100               | %            | 70-130        | 12.27.19 19.32       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 12.27.19 19.32       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-30 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-037

Date Collected: 12.13.19 14.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.05  | 5.05 | mg/kg | 12.19.19 10.54 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 12.20.19 02.02 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 12.20.19 02.02 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 12.20.19 02.02 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 12.20.19 02.02 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 12.20.19 02.02 |      |
| o-Terphenyl    | 84-15-1    | 88         | %     | 70-135 | 12.20.19 02.02 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-30 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-037

Date Collected: 12.13.19 14.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.27.19 19.53       | 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          | 107               | %            | 70-130        | 12.27.19 19.53       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 100               | %            | 70-130        | 12.27.19 19.53       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-31 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-038

Date Collected: 12.16.19 16.18

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 729    | 4.96 | mg/kg | 12.19.19 11.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3930   | 500 | mg/kg | 12.20.19 05.53 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 41200  | 500 | mg/kg | 12.20.19 05.53 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3440   | 500 | mg/kg | 12.20.19 05.53 |      | 10  |
| Total TPH                          | PHC635     | 48600  | 500 | mg/kg | 12.20.19 05.53 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 119        | %     | 70-135 | 12.20.19 05.53 |      |
| o-Terphenyl    | 84-15-1    | 120        | %     | 70-135 | 12.20.19 05.53 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-31 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-038

Date Collected: 12.16.19 16.18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.169</b>      | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>6.35</b>       | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>18.2</b>       | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>39.6</b>       | 0.198        | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>19.4</b>       | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>59.0</b>       | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>83.7</b>       | 0.0990       | mg/kg         | 12.27.19 20.13       |             | 50  |
| <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          | 280               | %            | 70-130        | 12.27.19 20.13       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 70-130        | 12.27.19 20.13       |             |     |



## Certificate of Analytical Results 646725

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

Blineberry Sat #1

Sample Id: S-32 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-039

Date Collected: 12.16.19 16.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1360   | 25.0 | mg/kg | 12.19.19 11.20 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3090       | 500   | mg/kg  | 12.20.19 06.14 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 39700      | 500   | mg/kg  | 12.20.19 06.14 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3460       | 500   | mg/kg  | 12.20.19 06.14 |      | 10  |
| Total TPH                          | PHC635     | 46300      | 500   | mg/kg  | 12.20.19 06.14 |      | 10  |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 120        | %     | 70-135 | 12.20.19 06.14 |      |     |
| o-Terphenyl                        | 84-15-1    | 126        | %     | 70-135 | 12.20.19 06.14 |      |     |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-32 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-039

Date Collected: 12.16.19 16.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.199            | 0.199        | mg/kg         | 12.27.19 20.33       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>1.70</b>       | 0.199        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>4.62</b>       | 0.199        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>24.4</b>       | 0.398        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>13.4</b>       | 0.199        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>37.8</b>       | 0.199        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>44.1</b>       | 0.199        | mg/kg         | 12.27.19 20.33       |             | 100 |
| <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          | 182               | %            | 70-130        | 12.27.19 20.33       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 86                | %            | 70-130        | 12.27.19 20.33       |             |     |





# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-33 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-040

Date Collected: 12.16.19 16.22

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 345    | 5.00 | mg/kg | 12.19.19 11.40 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 16.00

Basis: Wet Weight

Seq Number: 3111278

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1840       | 249   | mg/kg  | 12.20.19 06.35 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 16200      | 249   | mg/kg  | 12.20.19 06.35 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1450       | 249   | mg/kg  | 12.20.19 06.35 |      | 5   |
| Total TPH                          | PHC635     | 19500      | 249   | mg/kg  | 12.20.19 06.35 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 102        | %     | 70-135 | 12.20.19 06.35 |      |     |
| o-Terphenyl                        | 84-15-1    | 103        | %     | 70-135 | 12.20.19 06.35 |      |     |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-33 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-040

Date Collected: 12.16.19 16.22

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number  | Result     | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00199   | 0.00199 | mg/kg | 12.27.19 20.53 | U              | 1    |
| Toluene              | 108-88-3    | 0.00523    | 0.00199 | mg/kg | 12.27.19 20.53 |                | 1    |
| Ethylbenzene         | 100-41-4    | 0.0610     | 0.00199 | mg/kg | 12.27.19 20.53 |                | 1    |
| m,p-Xylenes          | 179601-23-1 | 0.0227     | 0.00398 | mg/kg | 12.27.19 20.53 |                | 1    |
| o-Xylene             | 95-47-6     | 0.137      | 0.00199 | mg/kg | 12.27.19 20.53 |                | 1    |
| Total Xylenes        | 1330-20-7   | 0.160      | 0.00199 | mg/kg | 12.27.19 20.53 |                | 1    |
| Total BTEX           |             | 0.226      | 0.00199 | mg/kg | 12.27.19 20.53 |                | 1    |
| Surrogate            | Cas Number  | % Recovery |         | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 87         |         | %     | 70-130         | 12.27.19 20.53 |      |
| 4-Bromofluorobenzene | 460-00-4    | 220        |         | %     | 70-130         | 12.27.19 20.53 | **   |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-34 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-041

Date Collected: 12.16.19 16.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1000   | 5.00 | mg/kg | 12.19.19 11.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2360   | 250 | mg/kg | 12.19.19 06.28 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20800  | 250 | mg/kg | 12.19.19 06.28 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1930   | 250 | mg/kg | 12.19.19 06.28 |      | 5   |
| Total TPH                          | PHC635     | 25100  | 250 | mg/kg | 12.19.19 06.28 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 118        | %     | 70-135 | 12.19.19 06.28 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 12.19.19 06.28 |      |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-34 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-041

Date Collected: 12.16.19 16.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.00

Basis: Wet Weight

Seq Number: 3111937

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.198            | 0.198        | mg/kg         | 12.27.19 21.13       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>2.19</b>       | 0.198        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.45</b>       | 0.198        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>14.4</b>       | 0.397        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>7.16</b>       | 0.198        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>21.6</b>       | 0.198        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>30.2</b>       | 0.198        | mg/kg         | 12.27.19 21.13       |             | 100 |
| <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          | 161               | %            | 70-130        | 12.27.19 21.13       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 85                | %            | 70-130        | 12.27.19 21.13       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-35 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-042

Date Collected: 12.16.19 16.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 4180   | 25.0 | mg/kg | 12.19.19 11.53 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1350   | 249 | mg/kg | 12.19.19 06.48 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 15400  | 249 | mg/kg | 12.19.19 06.48 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1460   | 249 | mg/kg | 12.19.19 06.48 |      | 5   |
| Total TPH                          | PHC635     | 18200  | 249 | mg/kg | 12.19.19 06.48 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 12.19.19 06.48 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 12.19.19 06.48 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-35 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-042

Date Collected: 12.16.19 16.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.404</b>      | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>2.68</b>       | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.67</b>       | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>13.6</b>       | 0.200        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>5.94</b>       | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>19.5</b>       | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>29.3</b>       | 0.100        | mg/kg         | 12.26.19 15.12       |             | 50  |
| <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          | 90                | %            | 70-130        | 12.26.19 15.12       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 174               | %            | 70-130        | 12.26.19 15.12       | **          |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-36 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-043

Date Collected: 12.16.19 16.29

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 206    | 5.04 | mg/kg | 12.19.19 12.00 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1990   | 249 | mg/kg | 12.19.19 07.09 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 23500  | 249 | mg/kg | 12.19.19 07.09 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2120   | 249 | mg/kg | 12.19.19 07.09 |      | 5   |
| Total TPH                          | PHC635     | 27600  | 249 | mg/kg | 12.19.19 07.09 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 108        | %     | 70-135 | 12.19.19 07.09 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 12.19.19 07.09 |      |





# Certificate of Analytical Results 646725

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

### Blineberry Sat #1

Sample Id: **S-36 (0-0.5')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-043

Date Collected: 12.16.19 16.29

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0996           | 0.0996       | mg/kg         | 12.26.19 15.33       | U           | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>2.25</b>       | 0.0996       | mg/kg         | 12.26.19 15.33       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>5.37</b>       | 0.0996       | mg/kg         | 12.26.19 15.33       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>10.9</b>       | 0.199        | mg/kg         | 12.26.19 15.33       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>5.20</b>       | 0.0996       | mg/kg         | 12.26.19 15.33       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>16.1</b>       | 0.0996       | mg/kg         | 12.26.19 15.33       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>23.7</b>       | 0.0996       | mg/kg         | 12.26.19 15.33       |             | 50  |
| <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          | 184               | %            | 70-130        | 12.26.19 15.33       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 87                | %            | 70-130        | 12.26.19 15.33       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-37 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-044

Date Collected: 12.16.19 16.33

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.96  | 4.96 | mg/kg | 12.19.19 12.07 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 04.43 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 04.43 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 04.43 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 04.43 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 12.19.19 04.43 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 12.19.19 04.43 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-37 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-044

Date Collected: 12.16.19 16.33

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 12.27.19 13.03       | 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          | 91                | %            | 70-130        | 12.27.19 13.03       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 113               | %            | 70-130        | 12.27.19 13.03       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-37 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-045

Date Collected: 12.16.19 16.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 12.13 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 05.04 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 05.04 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 05.04 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 05.04 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 91         | %     | 70-135 | 12.19.19 05.04 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 12.19.19 05.04 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-37 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-045

Date Collected: 12.16.19 16.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.26.19 17.00

Basis: Wet Weight

Seq Number: 3111859

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.27.19 13.24       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 12.27.19 13.24       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 96                | %            | 70-130        | 12.27.19 13.24       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-38 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-046

Date Collected: 12.16.19 16.34

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 09.00

Basis: Wet Weight

Seq Number: 3111239

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1820   | 25.1 | mg/kg | 12.19.19 12.20 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1040   | 250 | mg/kg | 12.19.19 07.30 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 24400  | 250 | mg/kg | 12.19.19 07.30 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2430   | 250 | mg/kg | 12.19.19 07.30 |      | 5   |
| Total TPH                          | PHC635     | 27900  | 250 | mg/kg | 12.19.19 07.30 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 12.19.19 07.30 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 12.19.19 07.30 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-38 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-046

Date Collected: 12.16.19 16.34

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0998           | 0.0998       | mg/kg         | 12.26.19 17.32       | U           | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>0.127</b>      | 0.0998       | mg/kg         | 12.26.19 17.32       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.401</b>      | 0.0998       | mg/kg         | 12.26.19 17.32       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>1.08</b>       | 0.200        | mg/kg         | 12.26.19 17.32       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>1.39</b>       | 0.0998       | mg/kg         | 12.26.19 17.32       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>2.47</b>       | 0.0998       | mg/kg         | 12.26.19 17.32       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>3.00</b>       | 0.0998       | mg/kg         | 12.26.19 17.32       |             | 50  |
| <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          | 136               | %            | 70-130        | 12.26.19 17.32       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 81                | %            | 70-130        | 12.26.19 17.32       |             |     |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-39 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-047

Date Collected: 12.16.19 16.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1260   | 5.00 | mg/kg | 12.19.19 14.26 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1920   | 250 | mg/kg | 12.19.19 07.51 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 23500  | 250 | mg/kg | 12.19.19 07.51 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2340   | 250 | mg/kg | 12.19.19 07.51 |      | 5   |
| Total TPH                          | PHC635     | 27800  | 250 | mg/kg | 12.19.19 07.51 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 12.19.19 07.51 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 12.19.19 07.51 |      |





## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-39 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-047

Date Collected: 12.16.19 16.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0996           | 0.0996       | mg/kg         | 12.26.19 17.52       | U           | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>1.04</b>       | 0.0996       | mg/kg         | 12.26.19 17.52       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>5.23</b>       | 0.0996       | mg/kg         | 12.26.19 17.52       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>10.6</b>       | 0.199        | mg/kg         | 12.26.19 17.52       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>5.70</b>       | 0.0996       | mg/kg         | 12.26.19 17.52       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>16.3</b>       | 0.0996       | mg/kg         | 12.26.19 17.52       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>22.6</b>       | 0.0996       | mg/kg         | 12.26.19 17.52       |             | 50  |
| <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          | 199               | %            | 70-130        | 12.26.19 17.52       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 70-130        | 12.26.19 17.52       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-40 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-048

Date Collected: 12.16.19 16.37

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 12.19.19 14.42 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 05.25 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 05.25 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 05.25 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 05.25 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 12.19.19 05.25 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 12.19.19 05.25 |      |



## Certificate of Analytical Results 646725

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

Blineberry Sat #1

Sample Id: S-40 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-048

Date Collected: 12.16.19 16.37

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.29.19 12.00

Basis: Wet Weight

Seq Number: 3111947

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 12.29.19 18.57       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 12.29.19 18.57       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 96                | %            | 70-130        | 12.29.19 18.57       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-40 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-049

Date Collected: 12.16.19 16.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 12.19.19 14.47 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 05.46 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 05.46 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 05.46 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 05.46 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 12.19.19 05.46 |      |
| o-Terphenyl    | 84-15-1    | 91         | %     | 70-135 | 12.19.19 05.46 |      |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: **S-40 (0.5-1')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-049

Date Collected: 12.16.19 16.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00396          | 0.00396      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 12.26.19 18.32       | 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          | 102               | %            | 70-130        | 12.26.19 18.32       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 70-130        | 12.26.19 18.32       |             |     |



## Certificate of Analytical Results 646725

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

Blineberry Sat #1

Sample Id: S-41 (0.0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-050

Date Collected: 12.16.19 16.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2560   | 24.8 | mg/kg | 12.19.19 14.52 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.18.19 15.00

Basis: Wet Weight

Seq Number: 3111148

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 57.8   | 50.0 | mg/kg | 12.19.19 06.07 |      | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 951    | 50.0 | mg/kg | 12.19.19 06.07 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 99.4   | 50.0 | mg/kg | 12.19.19 06.07 |      | 1   |
| Total TPH                          | PHC635     | 1110   | 50.0 | mg/kg | 12.19.19 06.07 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 20         | %     | 70-135 | 12.19.19 06.07 | **   |
| o-Terphenyl    | 84-15-1    | 20         | %     | 70-135 | 12.19.19 06.07 | **   |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-41 (0.0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-050

Date Collected: 12.16.19 16.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number  | Result     | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg | 12.26.19 18.52 | U              | 1    |
| Toluene              | 108-88-3    | 0.00389    | 0.00200 | mg/kg | 12.26.19 18.52 |                | 1    |
| Ethylbenzene         | 100-41-4    | 0.0198     | 0.00200 | mg/kg | 12.26.19 18.52 |                | 1    |
| m,p-Xylenes          | 179601-23-1 | 0.0185     | 0.00401 | mg/kg | 12.26.19 18.52 |                | 1    |
| o-Xylene             | 95-47-6     | 0.145      | 0.00200 | mg/kg | 12.26.19 18.52 |                | 1    |
| Total Xylenes        | 1330-20-7   | 0.164      | 0.00200 | mg/kg | 12.26.19 18.52 |                | 1    |
| Total BTEX           |             | 0.187      | 0.00200 | mg/kg | 12.26.19 18.52 |                | 1    |
| Surrogate            | Cas Number  | % Recovery |         | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 96         |         | %     | 70-130         | 12.26.19 18.52 |      |
| 4-Bromofluorobenzene | 460-00-4    | 151        |         | %     | 70-130         | 12.26.19 18.52 | **   |



# Certificate of Analytical Results 646725



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

### Blineberry Sat #1

Sample Id: S-42 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-051

Date Collected: 12.16.19 16.42

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 14.57 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.19.19 12.00

Basis: Wet Weight

Seq Number: 3111273

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 13.25 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 13.25 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 95         | %     | 70-135 | 12.19.19 13.25 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 12.19.19 13.25 |      |





# Certificate of Analytical Results 646725

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

### Blineberry Sat #1

Sample Id: S-42 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-051

Date Collected: 12.16.19 16.42

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 12.26.19 11.56       | 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          | 103               | %            | 70-130        | 12.26.19 11.56       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 88                | %            | 70-130        | 12.26.19 11.56       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-42 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-052

Date Collected: 12.16.19 16.43

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 12.19.19 15.13 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.19.19 12.00

Basis: Wet Weight

Seq Number: 3111273

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 12.19.19 14.29 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 12.19.19 14.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 12.19.19 14.29 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 12.19.19 14.29 |      |



## Certificate of Analytical Results 646725

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

## Blineberry Sat #1

Sample Id: S-42 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-052

Date Collected: 12.16.19 16.43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.13       | 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          | 123               | %            | 70-130        | 12.26.19 19.13       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 12.26.19 19.13       |             |     |



# Certificate of Analytical Results 646725



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

Blineberry Sat #1

Sample Id: S-43 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-053

Date Collected: 12.13.19 16.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.03  | 5.03 | mg/kg | 12.19.19 15.18 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.19.19 12.00

Basis: Wet Weight

Seq Number: 3111273

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 12.19.19 14.50 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 12.19.19 14.50 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 12.19.19 14.50 |      |



# Certificate of Analytical Results 646725

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

### Blineberry Sat #1

Sample Id: S-43 (0-0.5')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-053

Date Collected: 12.13.19 16.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 12.26.19 19.33       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 106               | %            | 70-130        | 12.26.19 19.33       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 94                | %            | 70-130        | 12.26.19 19.33       |             |     |



## Certificate of Analytical Results 646725

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

Blineberry Sat #1

Sample Id: S-43 (0.5-1')

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-054

Date Collected: 12.13.19 16.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.19.19 10.40

Basis: Wet Weight

Seq Number: 3111262

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 26.9   | 5.01 | mg/kg | 12.19.19 15.23 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.19.19 12.00

Basis: Wet Weight

Seq Number: 3111273

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 12.19.19 15.11       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.8             | 49.8         | mg/kg         | 12.19.19 15.11       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 12.19.19 15.11       | U           | 1   |
| Total TPH                          | PHC635            | <49.8             | 49.8         | mg/kg         | 12.19.19 15.11       | 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          | 106               | %            | 70-135        | 12.19.19 15.11       |             |     |
| o-Terphenyl                        | 84-15-1           | 119               | %            | 70-135        | 12.19.19 15.11       |             |     |



# Certificate of Analytical Results 646725

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

### Blineberry Sat #1

Sample Id: **S-43 (0.5-1')**

Matrix: Soil

Date Received: 12.18.19 08.36

Lab Sample Id: 646725-054

Date Collected: 12.13.19 16.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.24.19 14.15

Basis: Wet Weight

Seq Number: 3111767

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 12.26.19 19.53       | 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          | 91                | %            | 70-130        | 12.26.19 19.53       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 12.26.19 19.53       |             |     |



## 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.

**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.  
Blineberry Sat #1

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111053

MB Sample Id: 7692790-1-BLK

Matrix: Solid

LCS Sample Id: 7692790-1-BKS

Prep Method: E300P

Date Prep: 12.18.19

LCSD Sample Id: 7692790-1-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          | 247        | 99       | 257         | 103       | 90-110 | 4    | 20        | mg/kg | 12.18.19 19:58 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111238

MB Sample Id: 7692845-1-BLK

Matrix: Solid

LCS Sample Id: 7692845-1-BKS

Prep Method: E300P

Date Prep: 12.19.19

LCSD Sample Id: 7692845-1-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      | 255         | 102       | 90-110 | 0    | 20        | mg/kg | 12.19.19 10:09 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111239

MB Sample Id: 7692846-1-BLK

Matrix: Solid

LCS Sample Id: 7692846-1-BKS

Prep Method: E300P

Date Prep: 12.19.19

LCSD Sample Id: 7692846-1-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      | 253         | 101       | 90-110 | 1    | 20        | mg/kg | 12.19.19 09:07 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111262

MB Sample Id: 7692847-1-BLK

Matrix: Solid

LCS Sample Id: 7692847-1-BKS

Prep Method: E300P

Date Prep: 12.19.19

LCSD Sample Id: 7692847-1-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          | 271        | 108      | 263         | 105       | 90-110 | 3    | 20        | mg/kg | 12.19.19 14:16 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111053

Parent Sample Id: 646725-001

Matrix: Soil

MS Sample Id: 646725-001 S

Prep Method: E300P

Date Prep: 12.18.19

MSD Sample Id: 646725-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <4.97         | 249          | 239       | 96      | 240        | 96       | 90-110 | 0    | 20        | mg/kg | 12.18.19 22:02 |      |

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

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

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



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**Analytical Method: Chloride by EPA 300**

Seq Number: 3111053

Parent Sample Id: 646725-003

Matrix: Soil

MS Sample Id: 646725-003 S

Prep Method: E300P

Date Prep: 12.18.19

MSD Sample Id: 646725-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 304           | 252          | 541       | 94      | 536        | 92       | 90-110 | 1    | 20        | mg/kg | 12.18.19 20:20 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111238

Parent Sample Id: 646725-007

Matrix: Soil

MS Sample Id: 646725-007 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646725-007 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <0.852        | 248          | 257       | 104     | 256        | 103      | 90-110 | 0    | 20        | mg/kg | 12.19.19 10:31 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111238

Parent Sample Id: 646725-010

Matrix: Soil

MS Sample Id: 646725-010 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646725-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 2.54          | 250          | 263       | 104     | 261        | 103      | 90-110 | 1    | 20        | mg/kg | 12.19.19 12:12 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111239

Parent Sample Id: 646725-027

Matrix: Soil

MS Sample Id: 646725-027 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646725-027 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 523           | 252          | 748       | 89      | 746        | 88       | 90-110 | 0    | 20        | mg/kg | 12.19.19 09:27 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111239

Parent Sample Id: 646725-037

Matrix: Soil

MS Sample Id: 646725-037 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646725-037 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 1.84          | 253          | 245       | 96      | 243        | 95       | 90-110 | 1    | 20        | mg/kg | 12.19.19 11:00 |      |

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



Larson and Associates, Inc.  
Blineberry Sat #1

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111262

Parent Sample Id: 646725-047

Matrix: Soil

MS Sample Id: 646725-047 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646725-047 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 1260          | 200          | 1420      | 80      | 1400       | 70       | 90-110 | 1    | 20        | mg/kg | 12.19.19 14:31 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3111262

Parent Sample Id: 646737-002

Matrix: Soil

MS Sample Id: 646737-002 S

Prep Method: E300P

Date Prep: 12.19.19

MSD Sample Id: 646737-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 476           | 198          | 681       | 104     | 682        | 104      | 90-110 | 0    | 20        | mg/kg | 12.19.19 15:44 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111148

MB Sample Id: 7692776-1-BLK

Matrix: Solid

LCS Sample Id: 7692776-1-BKS

Prep Method: SW8015P

Date Prep: 12.18.19

LCSD Sample Id: 7692776-1-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         | 1060       | 106      | 1000        | 100       | 70-135 | 6    | 20        | mg/kg | 12.19.19 04:43 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1060       | 106      | 1020        | 102       | 70-135 | 4    | 20        | mg/kg | 12.19.19 04:43 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 105     |         | 126      |          | 106       |           | 70-135 | %     | 12.19.19 04:43 |
| o-Terphenyl    | 106     |         | 108      |          | 102       |           | 70-135 | %     | 12.19.19 04:43 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111277

MB Sample Id: 7692779-1-BLK

Matrix: Solid

LCS Sample Id: 7692779-1-BKS

Prep Method: SW8015P

Date Prep: 12.18.19

LCSD Sample Id: 7692779-1-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) | <15.0     | 1000         | 961        | 96       | 975         | 98        | 70-135 | 1    | 20        | mg/kg | 12.19.19 12:43 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 961        | 96       | 964         | 96        | 70-135 | 0    | 20        | mg/kg | 12.19.19 12:43 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 102     |         | 102      |          | 104       |           | 70-135 | %     | 12.19.19 12:43 |
| o-Terphenyl    | 104     |         | 97       |          | 101       |           | 70-135 | %     | 12.19.19 12:43 |

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



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Blineberry Sat #1

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111278

MB Sample Id: 7692781-1-BLK

Matrix: Solid

LCS Sample Id: 7692781-1-BKS

Prep Method: SW8015P

Date Prep: 12.18.19

LCSD Sample Id: 7692781-1-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) | <15.0     | 1000         | 879        | 88       | 978         | 98        | 70-135 | 11    | 20             | mg/kg | 12.19.19 22:11 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 867        | 87       | 967         | 97        | 70-135 | 11    | 20             | mg/kg | 12.19.19 22:11 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  | Flag  |                |      |
| 1-Chlorooctane                    | 106       |              | 94         |          | 104         |           | 70-135 | %     | 12.19.19 22:11 |       |                |      |
| o-Terphenyl                       | 104       |              | 86         |          | 98          |           | 70-135 | %     | 12.19.19 22:11 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111273

MB Sample Id: 7692895-1-BLK

Matrix: Solid

LCS Sample Id: 7692895-1-BKS

Prep Method: SW8015P

Date Prep: 12.19.19

LCSD Sample Id: 7692895-1-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) | <15.0     | 1000         | 906        | 91       | 924         | 92        | 70-135 | 2    | 20        | mg/kg | 12.19.19 12:43 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 972        | 97       | 996         | 100       | 70-135 | 2    | 20        | mg/kg | 12.19.19 12:43 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits |      |           | Units | Analysis Date  |      |
| 1-Chlorooctane                    | 99        |              | 96         |          | 100         |           | 70-135 |      |           | %     | 12.19.19 12:43 |      |
| o-Terphenyl                       | 108       |              | 99         |          | 103         |           | 70-135 |      |           | %     | 12.19.19 12:43 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111148

Matrix: Solid

MB Sample Id: 7692776-1-BLK

Prep Method: SW8015P

Date Prep: 12.18.19

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.19.19 04:22 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3111277

Matrix: Solid

MB Sample Id: 7692779-1-BLK

Prep Method: SW8015P

Date Prep: 12.18.19

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.19.19 12:22 |      |

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



**Larson and Associates, Inc.**  
Blineberry Sat #1

**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3111278

Matrix: Solid

MB Sample Id: 7692781-1-BLK

Prep Method: SW8015P

Date Prep: 12.18.19

**Parameter**

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.19.19 21:50 |      |

**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3111273

Matrix: Solid

MB Sample Id: 7692895-1-BLK

Prep Method: SW8015P

Date Prep: 12.19.19

**Parameter**

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 12.19.19 12:22 |      |

**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3111148

Matrix: Soil

Parent Sample Id: 646598-001

MS Sample Id: 646598-001 S

Prep Method: SW8015P

Date Prep: 12.18.19

MSD Sample Id: 646598-001 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) | <15.0         | 997          | 1050      | 105     | 1050       | 105      | 70-135 | 0    | 20        | mg/kg | 12.19.19 05:46 |      |
| Diesel Range Organics (DRO)       | 20.5          | 997          | 1090      | 107     | 1070       | 105      | 70-135 | 2    | 20        | mg/kg | 12.19.19 05:46 |      |

**Surrogate**

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 112     |         | 125      |          | 70-135 | %     | 12.19.19 05:46 |
| o-Terphenyl    | 111     |         | 108      |          | 70-135 | %     | 12.19.19 05:46 |

**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3111277

Matrix: Soil

Parent Sample Id: 646725-001

MS Sample Id: 646725-001 S

Prep Method: SW8015P

Date Prep: 12.18.19

MSD Sample Id: 646725-001 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) | <15.0         | 997          | 906       | 91      | 928        | 93       | 70-135 | 2    | 20        | mg/kg | 12.19.19 13:46 |      |
| Diesel Range Organics (DRO)       | 26.9          | 997          | 949       | 92      | 927        | 90       | 70-135 | 2    | 20        | mg/kg | 12.19.19 13:46 |      |

**Surrogate**

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 94      |         | 94       |          | 70-135 | %     | 12.19.19 13:46 |
| o-Terphenyl    | 93      |         | 88       |          | 70-135 | %     | 12.19.19 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.

Blineberry Sat #1

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3111278

Parent Sample Id: 646725-021

Matrix: Soil

MS Sample Id: 646725-021 S

Prep Method: SW8015P

Date Prep: 12.18.19

MSD Sample Id: 646725-021 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) | <15.0         | 997          | 900       | 90      | 897        | 90       | 70-135 | 0    | 20        | mg/kg | 12.19.19 23:13 |      |
| Diesel Range Organics (DRO)       | 17.5          | 997          | 833       | 82      | 844        | 83       | 70-135 | 1    | 20        | mg/kg | 12.19.19 23:13 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 98      |         | 97       |          | 70-135 | %     | 12.19.19 23:13 |
| o-Terphenyl    | 89      |         | 88       |          | 70-135 | %     | 12.19.19 23:13 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3111273

Parent Sample Id: 646725-051

Matrix: Soil

MS Sample Id: 646725-051 S

Prep Method: SW8015P

Date Prep: 12.19.19

MSD Sample Id: 646725-051 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) | 18.6          | 999          | 942       | 92      | 900        | 88       | 70-135 | 5    | 20        | mg/kg | 12.19.19 13:46 |      |
| Diesel Range Organics (DRO)       | <15.0         | 999          | 961       | 96      | 918        | 92       | 70-135 | 5    | 20        | mg/kg | 12.19.19 13:46 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 104     |         | 98       |          | 70-135 | %     | 12.19.19 13:46 |
| o-Terphenyl    | 104     |         | 100      |          | 70-135 | %     | 12.19.19 13:46 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3111374

MB Sample Id: 7693051-1-BLK

Matrix: Solid

LCS Sample Id: 7693051-1-BKS

Prep Method: SW5030B

Date Prep: 12.21.19

LCSD Sample Id: 7693051-1-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        | 0.0870     | 87       | 0.0956      | 96        | 70-130 | 9    | 35        | mg/kg | 12.21.19 18:48 |      |
| Toluene      | <0.000456 | 0.100        | 0.0883     | 88       | 0.0940      | 94        | 70-130 | 6    | 35        | mg/kg | 12.21.19 18:48 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.0916     | 92       | 0.0957      | 96        | 70-130 | 4    | 35        | mg/kg | 12.21.19 18:48 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.192      | 96       | 0.197       | 99        | 70-130 | 3    | 35        | mg/kg | 12.21.19 18:48 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.0975     | 98       | 0.102       | 102       | 70-130 | 5    | 35        | mg/kg | 12.21.19 18:48 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 92      |         | 92       |          | 102       |           | 70-130 | %     | 12.21.19 18:48 |
| 4-Bromofluorobenzene | 96      |         | 97       |          | 102       |           | 70-130 | %     | 12.21.19 18:48 |

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.**  
Blineberry Sat #1

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

Seq Number: 3111704

MB Sample Id: 7693232-1-BLK

Matrix: Solid

LCS Sample Id: 7693232-1-BKS

Prep Method: SW5030B

Date Prep: 12.24.19

LCSD Sample Id: 7693232-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 0.000400  | 0.100        | 0.0907     | 91       | 0.0964      | 96        | 70-130 | 6    | 35        | mg/kg | 12.24.19 11:13 |      |
| Toluene      | 0.00231   | 0.100        | 0.0875     | 88       | 0.0942      | 94        | 70-130 | 7    | 35        | mg/kg | 12.24.19 11:13 |      |
| Ethylbenzene | 0.00130   | 0.100        | 0.0873     | 87       | 0.0944      | 94        | 70-130 | 8    | 35        | mg/kg | 12.24.19 11:13 |      |
| m,p-Xylenes  | 0.00249   | 0.200        | 0.178      | 89       | 0.195       | 98        | 70-130 | 9    | 35        | mg/kg | 12.24.19 11:13 |      |
| o-Xylene     | 0.000980  | 0.100        | 0.0927     | 93       | 0.103       | 103       | 70-130 | 11   | 35        | mg/kg | 12.24.19 11:13 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 97      |         | 93       |          | 99        |           | 70-130 | %     | 12.24.19 11:13 |
| 4-Bromofluorobenzene | 102     |         | 95       |          | 102       |           | 70-130 | %     | 12.24.19 11:13 |

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

Seq Number: 3111937

MB Sample Id: 7693241-1-BLK

Matrix: Solid

LCS Sample Id: 7693241-1-BKS

Prep Method: SW5030B

Date Prep: 12.24.19

LCSD Sample Id: 7693241-1-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        | 0.0934     | 93       | 0.0949      | 95        | 70-130 | 2    | 35        | mg/kg | 12.27.19 11:33 |      |
| Toluene      | <0.000456 | 0.100        | 0.0895     | 90       | 0.0908      | 91        | 70-130 | 1    | 35        | mg/kg | 12.27.19 11:33 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.0889     | 89       | 0.0917      | 92        | 70-130 | 3    | 35        | mg/kg | 12.27.19 11:33 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.182      | 91       | 0.189       | 95        | 70-130 | 4    | 35        | mg/kg | 12.27.19 11:33 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.0926     | 93       | 0.0978      | 98        | 70-130 | 5    | 35        | mg/kg | 12.27.19 11:33 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 95       |          | 100       |           | 70-130 | %     | 12.27.19 11:33 |
| 4-Bromofluorobenzene | 88      |         | 92       |          | 100       |           | 70-130 | %     | 12.27.19 11:33 |

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

Seq Number: 3111767

MB Sample Id: 7693242-1-BLK

Matrix: Solid

LCS Sample Id: 7693242-1-BKS

Prep Method: SW5030B

Date Prep: 12.24.19

LCSD Sample Id: 7693242-1-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        | 0.0914     | 91       | 0.0920      | 92        | 70-130 | 1    | 35        | mg/kg | 12.26.19 09:37 |      |
| Toluene      | <0.000456 | 0.100        | 0.0859     | 86       | 0.0873      | 87        | 70-130 | 2    | 35        | mg/kg | 12.26.19 09:37 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.0850     | 85       | 0.0871      | 87        | 70-130 | 2    | 35        | mg/kg | 12.26.19 09:37 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.174      | 87       | 0.179       | 90        | 70-130 | 3    | 35        | mg/kg | 12.26.19 09:37 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.0907     | 91       | 0.0946      | 95        | 70-130 | 4    | 35        | mg/kg | 12.26.19 09:37 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 97       |          | 103       |           | 70-130 | %     | 12.26.19 09:37 |
| 4-Bromofluorobenzene | 87      |         | 93       |          | 96        |           | 70-130 | %     | 12.26.19 09:37 |

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





**Larson and Associates, Inc.**  
Blineberry Sat #1

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

Seq Number: 3111859

MB Sample Id: 7693367-1-BLK

Matrix: Solid

LCS Sample Id: 7693367-1-BKS

Prep Method: SW5030B

Date Prep: 12.26.19

LCSD Sample Id: 7693367-1-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        | 0.116      | 116      | 0.0997      | 100       | 70-130 | 15   | 35        | mg/kg | 12.26.19 19:15 |      |
| Toluene      | <0.00200  | 0.100        | 0.106      | 106      | 0.0932      | 93        | 70-130 | 13   | 35        | mg/kg | 12.26.19 19:15 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.107      | 107      | 0.0957      | 96        | 70-130 | 11   | 35        | mg/kg | 12.26.19 19:15 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.216      | 108      | 0.194       | 97        | 70-130 | 11   | 35        | mg/kg | 12.26.19 19:15 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.107      | 107      | 0.0969      | 97        | 70-130 | 10   | 35        | mg/kg | 12.26.19 19:15 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 113      |          | 109       |           | 70-130 | %     | 12.26.19 19:15 |
| 4-Bromofluorobenzene | 97      |         | 99       |          | 97        |           | 70-130 | %     | 12.26.19 19:15 |

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

Seq Number: 3111947

MB Sample Id: 7693451-1-BLK

Matrix: Solid

LCS Sample Id: 7693451-1-BKS

Prep Method: SW5030B

Date Prep: 12.29.19

LCSD Sample Id: 7693451-1-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        | 0.108      | 108      | 0.105       | 105       | 70-130 | 3    | 35        | mg/kg | 12.29.19 16:27 |      |
| Toluene      | <0.00200  | 0.100        | 0.0988     | 99       | 0.0979      | 98        | 70-130 | 1    | 35        | mg/kg | 12.29.19 16:27 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0998     | 100      | 0.101       | 101       | 70-130 | 1    | 35        | mg/kg | 12.29.19 16:27 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.203      | 102      | 0.206       | 103       | 70-130 | 1    | 35        | mg/kg | 12.29.19 16:27 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.100      | 100      | 0.102       | 102       | 70-130 | 2    | 35        | mg/kg | 12.29.19 16:27 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 111     |         | 111      |          | 110       |           | 70-130 | %     | 12.29.19 16:27 |
| 4-Bromofluorobenzene | 91      |         | 93       |          | 100       |           | 70-130 | %     | 12.29.19 16:27 |

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

Seq Number: 3111374

Parent Sample Id: 646641-001

Matrix: Soil

MS Sample Id: 646641-001 S

Prep Method: SW5030B

Date Prep: 12.21.19

MSD Sample Id: 646641-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 0.00997       | 0.100        | 0.0534    | 43      | 0.0390     | 29       | 70-130 | 31   | 35        | mg/kg | 12.21.19 19:28 | X    |
| Toluene      | 0.0326        | 0.100        | 0.0421    | 10      | 0.0305     | 0        | 70-130 | 32   | 35        | mg/kg | 12.21.19 19:28 | X    |
| Ethylbenzene | 0.0352        | 0.100        | 0.0415    | 6       | 0.0282     | 0        | 70-130 | 38   | 35        | mg/kg | 12.21.19 19:28 | XF   |
| m,p-Xylenes  | 0.124         | 0.201        | 0.129     | 2       | 0.0937     | 0        | 70-130 | 32   | 35        | mg/kg | 12.21.19 19:28 | X    |
| o-Xylene     | 0.0420        | 0.100        | 0.0466    | 5       | 0.0340     | 0        | 70-130 | 31   | 35        | mg/kg | 12.21.19 19:28 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 101      |          | 70-130 | %     | 12.21.19 19:28 |
| 4-Bromofluorobenzene | 139     | **      | 155      | **       | 70-130 | %     | 12.21.19 19:28 |

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

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

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

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





**Larson and Associates, Inc.**  
Blineberry Sat #1

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

Seq Number: 3111704

Parent Sample Id: 646725-018

Matrix: Soil

MS Sample Id: 646725-018 S

Prep Method: SW5030B

Date Prep: 12.24.19

MSD Sample Id: 646725-018 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 2.02          | 0.0992       | 0.548     | 0       | 0.540      | 0        | 70-130 | 1    | 35        | mg/kg | 12.24.19 11:53 | X    |
| Toluene      | 15.7          | 0.0992       | 2.21      | 0       | 2.19       | 0        | 70-130 | 1    | 35        | mg/kg | 12.24.19 11:53 | X    |
| Ethylbenzene | 13.8          | 0.0992       | 1.14      | 0       | 1.17       | 0        | 70-130 | 3    | 35        | mg/kg | 12.24.19 11:53 | X    |
| m,p-Xylenes  | 23.5          | 0.198        | 1.73      | 0       | 1.79       | 0        | 70-130 | 3    | 35        | mg/kg | 12.24.19 11:53 | X    |
| o-Xylene     | 9.79          | 0.0992       | 0.737     | 0       | 0.762      | 0        | 70-130 | 3    | 35        | mg/kg | 12.24.19 11:53 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 132     | **      | 133      | **       | 70-130 | %     | 12.24.19 11:53 |
| 4-Bromofluorobenzene | 510     | **      | 603      | **       | 70-130 | %     | 12.24.19 11:53 |

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

Seq Number: 3111937

Parent Sample Id: 646725-035

Matrix: Soil

MS Sample Id: 646725-035 S

Prep Method: SW5030B

Date Prep: 12.24.19

MSD Sample Id: 646725-035 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000384     | 0.0998       | 0.0758    | 76      | 0.0782     | 77       | 70-130 | 3    | 35        | mg/kg | 12.27.19 12:13 |      |
| Toluene      | 0.000481      | 0.0998       | 0.0670    | 67      | 0.0641     | 63       | 70-130 | 4    | 35        | mg/kg | 12.27.19 12:13 | X    |
| Ethylbenzene | 0.00109       | 0.0998       | 0.0624    | 61      | 0.0584     | 57       | 70-130 | 7    | 35        | mg/kg | 12.27.19 12:13 | X    |
| m,p-Xylenes  | <0.00101      | 0.200        | 0.129     | 65      | 0.118      | 58       | 70-130 | 9    | 35        | mg/kg | 12.27.19 12:13 | X    |
| o-Xylene     | 0.000822      | 0.0998       | 0.0681    | 67      | 0.0627     | 61       | 70-130 | 8    | 35        | mg/kg | 12.27.19 12:13 | X    |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 104      |          | 70-130 | %     | 12.27.19 12:13 |
| 4-Bromofluorobenzene | 106     |         | 99       |          | 70-130 | %     | 12.27.19 12:13 |

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

Seq Number: 3111767

Parent Sample Id: 646725-051

Matrix: Soil

MS Sample Id: 646725-051 S

Prep Method: SW5030B

Date Prep: 12.24.19

MSD Sample Id: 646725-051 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000385     | 0.100        | 0.00415   | 4       | 0.0294     | 29       | 70-130 | 151  | 35        | mg/kg | 12.26.19 10:17 | XF   |
| Toluene      | <0.000456     | 0.100        | 0.00621   | 6       | 0.0255     | 26       | 70-130 | 122  | 35        | mg/kg | 12.26.19 10:17 | XF   |
| Ethylbenzene | <0.000565     | 0.100        | 0.00800   | 8       | 0.0322     | 32       | 70-130 | 120  | 35        | mg/kg | 12.26.19 10:17 | XF   |
| m,p-Xylenes  | <0.00101      | 0.200        | 0.0144    | 7       | 0.0546     | 27       | 70-130 | 117  | 35        | mg/kg | 12.26.19 10:17 | XF   |
| o-Xylene     | <0.000344     | 0.100        | 0.0125    | 13      | 0.0435     | 44       | 70-130 | 111  | 35        | mg/kg | 12.26.19 10:17 | XF   |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 104     |         | 105      |          | 70-130 | %     | 12.26.19 10:17 |
| 4-Bromofluorobenzene | 71      |         | 99       |          | 70-130 | %     | 12.26.19 10:17 |

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.**  
Blineberry Sat #1

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

Seq Number: 3111859

Parent Sample Id: 646803-001

Matrix: Soil

MS Sample Id: 646803-001 S

Prep Method: SW5030B

Date Prep: 12.26.19

MSD Sample Id: 646803-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00201      | 0.100        | 0.0988    | 99      | 0.101      | 101      | 70-130 | 2    | 35        | mg/kg | 12.26.19 19:56 |      |
| Toluene      | <0.00201      | 0.100        | 0.0878    | 88      | 0.0913     | 91       | 70-130 | 4    | 35        | mg/kg | 12.26.19 19:56 |      |
| Ethylbenzene | <0.00201      | 0.100        | 0.0858    | 86      | 0.0901     | 90       | 70-130 | 5    | 35        | mg/kg | 12.26.19 19:56 |      |
| m,p-Xylenes  | <0.00402      | 0.201        | 0.173     | 86      | 0.182      | 91       | 70-130 | 5    | 35        | mg/kg | 12.26.19 19:56 |      |
| o-Xylene     | <0.00201      | 0.100        | 0.0869    | 87      | 0.0915     | 92       | 70-130 | 5    | 35        | mg/kg | 12.26.19 19:56 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 115     |         | 116      |          | 70-130 | %     | 12.26.19 19:56 |
| 4-Bromofluorobenzene | 105     |         | 109      |          | 70-130 | %     | 12.26.19 19:56 |

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

Seq Number: 3111947

Parent Sample Id: 647357-001

Matrix: Soil

MS Sample Id: 647357-001 S

Prep Method: SW5030B

Date Prep: 12.29.19

MSD Sample Id: 647357-001 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        | 0.0886    | 89      | 0.0857     | 86       | 70-130 | 3    | 35        | mg/kg | 12.29.19 17:08 |      |
| Toluene      | <0.00200      | 0.100        | 0.0834    | 83      | 0.0799     | 80       | 70-130 | 4    | 35        | mg/kg | 12.29.19 17:08 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0849    | 85      | 0.0807     | 81       | 70-130 | 5    | 35        | mg/kg | 12.29.19 17:08 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.175     | 88      | 0.165      | 83       | 70-130 | 6    | 35        | mg/kg | 12.29.19 17:08 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0877    | 88      | 0.0823     | 82       | 70-130 | 6    | 35        | mg/kg | 12.29.19 17:08 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 111     |         | 112      |          | 70-130 | %     | 12.29.19 17:08 |
| 4-Bromofluorobenzene | 104     |         | 103      |          | 70-130 | %     | 12.29.19 17:08 |

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



Final 1.000



Final 1.000





Client: Larson and Associates, Inc.

Date/ Time Received: 12/18/2019 08:36:00 AM

Work Order #: 646725

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)?                           | .5  |
| #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: 12/18/2019

Checklist reviewed by:

Holly Taylor

Date: 12/27/2019



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-001      | 650797-002      | 650797-003      | 650797-004      | 650797-005      | 650797-006      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <i>Field Id:</i>  | S-3 (1')        | S-3 (3')        | S-3 (5')        | S-3 (10')       | S-6 (1')        | S-6 (3')        |
|                                       | <i>Depth:</i>     |                 |                 |                 |                 |                 |                 |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-22-20 12:30 | Jan-22-20 12:31 | Jan-22-20 12:55 | Jan-22-20 12:56 | Jan-22-20 13:07 | Jan-22-20 13:08 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <i>Analyzed:</i>  | Feb-01-20 09:44 | Feb-01-20 00:55 | Feb-01-20 01:18 | Feb-01-20 01:43 | Feb-01-20 22:14 | Feb-01-20 02:07 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | 1.60 0.200      | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 1.13 0.101      | <0.0198 0.0198  |
| Toluene                               |                   | 24.5 0.200      | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 21.5 0.101      | 0.361 0.0198    |
| Ethylbenzene                          |                   | 13.6 0.200      | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 18.5 0.101      | 0.817 0.0198    |
| m,p-Xylenes                           |                   | 69.0 0.400      | <0.0401 0.0401  | <0.0398 0.0398  | <0.0402 0.0402  | 48.4 0.202      | 1.52 0.0397     |
| o-Xylene                              |                   | 28.4 0.200      | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 20.3 0.101      | 0.681 0.0198    |
| Total Xylenes                         |                   | 97.4 0.200      | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 68.7 0.101      | 2.20 0.0198     |
| Total BTEX                            |                   | 137 0.200       | <0.0200 0.0200  | <0.0199 0.0199  | <0.0201 0.0201  | 110 0.101       | 3.38 0.0198     |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-30-20 15:00 | Jan-30-20 15:00 | Jan-30-20 15:00 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 01:01 | Jan-31-20 01:07 | Jan-31-20 01:14 | Jan-30-20 17:59 | Jan-30-20 18:19 | Jan-30-20 18:25 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 5500 49.8       | 6920 49.9       | 141 5.04        | 91.8 4.95       | 3330 25.1       | 404 4.99        |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 13:33 | Jan-31-20 12:30 | Jan-31-20 13:54 | Jan-31-20 14:15 | Jan-31-20 14:36 | Jan-31-20 14:57 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | 4140 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 4110 249        | 95.0 50.0       |
| Diesel Range Organics (DRO)           |                   | 15900 250       | 75.8 50.0       | 173 49.9        | <50.0 50.0      | 12500 249       | 437 50.0        |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 1680 250        | <50.0 50.0      | 58.5 49.9       | <50.0 50.0      | 1280 249        | 57.3 50.0       |
| Total TPH                             |                   | 21700 250       | 75.8 50.0       | 232 49.9        | <50.0 50.0      | 17900 249       | 589 50.0        |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-007      | 650797-008      | 650797-009      | 650797-010      | 650797-011      | 650797-012      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <i>Field Id:</i>  | S-6 (5')        | S-6 (10')       | S-8 (1')        | S-8 (3')        | S-8 (5')        | S-8 (10')       |
|                                       | <i>Depth:</i>     |                 |                 |                 |                 |                 |                 |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-22-20 13:30 | Jan-22-20 13:31 | Jan-23-20 09:55 | Jan-23-20 09:56 | Jan-23-20 10:04 | Jan-23-20 10:05 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <i>Analyzed:</i>  | Feb-01-20 02:31 | Feb-01-20 02:55 | Feb-01-20 22:39 | Feb-01-20 03:19 | Feb-01-20 03:43 | Feb-01-20 04:07 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | <0.0200 0.0200  | <0.0199 0.0199  | 1.56 0.200      | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  |
| Toluene                               |                   | <0.0200 0.0200  | <0.0199 0.0199  | 18.4 0.200      | <0.0198 0.0198  | 0.0360 0.0200   | <0.0199 0.0199  |
| Ethylbenzene                          |                   | 0.0340 0.0200   | <0.0199 0.0199  | 16.4 0.200      | <0.0198 0.0198  | 0.0220 0.0200   | <0.0199 0.0199  |
| m,p-Xylenes                           |                   | 0.0620 0.0400   | <0.0398 0.0398  | 33.6 0.399      | <0.0396 0.0396  | 0.0400 0.0400   | <0.0398 0.0398  |
| o-Xylene                              |                   | 0.0220 0.0200   | <0.0199 0.0199  | 14.5 0.200      | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  |
| Total Xylenes                         |                   | 0.0840 0.0200   | <0.0199 0.0199  | 48.1 0.200      | <0.0198 0.0198  | 0.0400 0.0200   | <0.0199 0.0199  |
| Total BTEX                            |                   | 0.118 0.0200    | <0.0199 0.0199  | 84.5 0.200      | <0.0198 0.0198  | 0.0980 0.0200   | <0.0199 0.0199  |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 |
|                                       | <i>Analyzed:</i>  | Jan-30-20 18:32 | Jan-30-20 18:38 | Jan-30-20 18:58 | Jan-30-20 19:05 | Jan-30-20 19:12 | Jan-30-20 19:18 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 48.3 4.95       | 76.8 4.95       | 5960 30.5       | 793 5.01        | 31.2 5.05       | 113 4.99        |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 15:18 | Jan-31-20 15:39 | Jan-31-20 16:00 | Jan-31-20 16:20 | Jan-31-20 17:02 | Jan-31-20 17:24 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <49.8 49.8      | <49.9 49.9      | 2910 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      |
| Diesel Range Organics (DRO)           |                   | <49.8 49.8      | <49.9 49.9      | 14500 250       | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <49.8 49.8      | <49.9 49.9      | 1560 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      |
| Total TPH                             |                   | <49.8 49.8      | <49.9 49.9      | 19000 250       | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 10-FEB-20  
 Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-013      | 650797-014      | 650797-015      | 650797-016      | 650797-017      | 650797-018      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <i>Field Id:</i>  | S-9 (1')        | S-9 (3')        | S-9 (5')        | S-9 (10')       | S-10 (1')       | S-10 (3')       |
|                                       | <i>Depth:</i>     |                 |                 |                 |                 |                 |                 |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-23-20 10:47 | Jan-23-20 10:48 | Jan-23-20 10:53 | Jan-23-20 10:54 | Jan-23-20 11:11 | Jan-23-20 11:12 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:45 | Feb-03-20 12:00 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <i>Analyzed:</i>  | Feb-01-20 23:03 | Feb-03-20 22:50 | Feb-01-20 04:31 | Feb-01-20 06:07 | Feb-01-20 23:51 | Feb-01-20 06:31 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | 1.30 0.101      | 4.81 0.201      | <0.0202 0.0202  | <0.0198 0.0198  | 0.743 0.100     | <0.0200 0.0200  |
| Toluene                               |                   | 14.9 0.101      | 64.6 0.201      | <0.0202 0.0202  | <0.0198 0.0198  | 12.6 0.100      | 0.0359 0.0200   |
| Ethylbenzene                          |                   | 8.39 0.101      | 52.2 0.201      | <0.0202 0.0202  | <0.0198 0.0198  | 14.3 0.100      | 0.0220 0.0200   |
| m,p-Xylenes                           |                   | 64.9 0.202      | 80.8 0.402      | <0.0403 0.0403  | <0.0397 0.0397  | 31.2 0.201      | <0.0399 0.0399  |
| o-Xylene                              |                   | 26.8 0.101      | 32.9 0.201      | <0.0202 0.0202  | <0.0198 0.0198  | 13.8 0.100      | <0.0200 0.0200  |
| Total Xylenes                         |                   | 91.7 0.101      | 114 0.201       | <0.0202 0.0202  | <0.0198 0.0198  | 45.0 0.100      | <0.0200 0.0200  |
| Total BTEX                            |                   | 116 0.101       | 235 0.201       | <0.0202 0.0202  | <0.0198 0.0198  | 72.6 0.100      | 0.0579 0.0200   |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 |
|                                       | <i>Analyzed:</i>  | Jan-30-20 19:25 | Jan-30-20 19:52 | Jan-30-20 19:32 | Jan-30-20 19:58 | Jan-30-20 20:18 | Jan-30-20 20:25 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 7570 50.3       | 1520 25.1       | 26.8 4.96       | 38.6 25.0       | 2810 24.9       | 13.3 4.96       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 17:45 | Jan-31-20 18:05 | Jan-31-20 18:26 | Jan-31-20 18:47 | Jan-31-20 19:08 | Jan-31-20 19:29 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | 3720 250        | 3950 250        | <50.0 50.0      | <49.9 49.9      | 1720 250        | <50.0 50.0      |
| Diesel Range Organics (DRO)           |                   | 8940 250        | 6710 250        | <50.0 50.0      | <49.9 49.9      | 6260 250        | <50.0 50.0      |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 854 250         | 608 250         | <50.0 50.0      | <49.9 49.9      | 634 250         | <50.0 50.0      |
| Total TPH                             |                   | 13500 250       | 11300 250       | <50.0 50.0      | <49.9 49.9      | 8610 250        | <50.0 50.0      |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-019      | 650797-020      | 650797-021      | 650797-022      | 650797-023      | 650797-024      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <i>Field Id:</i>  | S-10 (5')       | S-10 (10')      | S-11 (1')       | S-11 (3')       | S-11 (5')       | S-11 (10')      |
|                                       | <i>Depth:</i>     |                 |                 |                 |                 |                 |                 |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-23-20 11:15 | Jan-23-20 11:16 | Jan-23-20 11:32 | Jan-23-20 11:33 | Jan-23-20 11:39 | Jan-23-20 11:40 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <i>Analyzed:</i>  | Feb-01-20 06:55 | Feb-01-20 07:19 | Feb-01-20 20:37 | Feb-01-20 07:43 | Feb-01-20 08:07 | Feb-01-20 08:31 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | <0.0198 0.0198  | <0.0200 0.0200  | 8.81 0.198      | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| Toluene                               |                   | <0.0198 0.0198  | <0.0200 0.0200  | 77.0 0.198      | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| Ethylbenzene                          |                   | <0.0198 0.0198  | <0.0200 0.0200  | 79.1 0.198      | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| m,p-Xylenes                           |                   | <0.0397 0.0397  | <0.0399 0.0399  | 132 0.397       | <0.0400 0.0400  | <0.0400 0.0400  | <0.0398 0.0398  |
| o-Xylene                              |                   | <0.0198 0.0198  | <0.0200 0.0200  | 53.4 0.198      | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| Total Xylenes                         |                   | <0.0198 0.0198  | <0.0200 0.0200  | 185 0.198       | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| Total BTEX                            |                   | <0.0198 0.0198  | <0.0200 0.0200  | 350 0.198       | <0.0200 0.0200  | <0.0200 0.0200  | <0.0199 0.0199  |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 15:50 | Jan-30-20 16:50 |
|                                       | <i>Analyzed:</i>  | Jan-30-20 20:31 | Jan-30-20 20:38 | Jan-30-20 20:45 | Jan-30-20 20:51 | Jan-30-20 20:58 | Jan-30-20 22:18 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 10.0 5.04       | 26.8 4.95       | 380 4.95        | 25.2 5.01       | <4.98 4.98      | 6.11 4.96       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 19:50 | Jan-31-20 20:11 | Jan-31-20 22:58 | Jan-31-20 21:56 | Jan-31-20 23:19 | Jan-31-20 23:40 |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0      | <49.9 49.9      | 7650 249        | <50.0 50.0      | <50.0 50.0      | <50.0 50.0      |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0      | <49.9 49.9      | 22100 249       | <50.0 50.0      | <50.0 50.0      | <50.0 50.0      |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0      | <49.9 49.9      | 1890 249        | <50.0 50.0      | <50.0 50.0      | <50.0 50.0      |
| Total TPH                             |                   | <50.0 50.0      | <49.9 49.9      | 31600 249       | <50.0 50.0      | <50.0 50.0      | <50.0 50.0      |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 10-FEB-20  
 Project Manager: Holly Taylor

| <b>Analysis Requested</b>             | <b>Lab Id:</b>    | 650797-025      | 650797-026      | 650797-027      | 650797-028      | 650797-029      | 650797-030      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <b>Field Id:</b>  | S-12 (1')       | S-12 (3')       | S-12 (5')       | S-12 (10')      | S-13 (1')       | S-13 (3')       |
|                                       | <b>Depth:</b>     |                 |                 |                 |                 |                 |                 |
|                                       | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <b>Sampled:</b>   | Jan-23-20 12:30 | Jan-23-20 12:03 | Jan-23-20 12:04 | Jan-23-20 12:10 | Jan-23-20 12:21 | Jan-23-20 12:38 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <b>Extracted:</b> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <b>Analyzed:</b>  | Feb-02-20 00:15 | Feb-01-20 08:56 | Feb-01-20 09:20 | Feb-01-20 15:21 | Feb-02-20 00:39 | Feb-01-20 15:46 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | 0.249 0.0994    | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 3.18 0.101      | <0.0200 0.0200  |
| Toluene                               |                   | 1.46 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 28.8 0.101      | <0.0200 0.0200  |
| Ethylbenzene                          |                   | 3.80 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 25.9 0.101      | 0.0200 0.0200   |
| m,p-Xylenes                           |                   | 5.70 0.199      | <0.0397 0.0397  | <0.0401 0.0401  | <0.0400 0.0400  | 37.4 0.201      | 0.0421 0.0401   |
| o-Xylene                              |                   | 2.04 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 21.3 0.101      | <0.0200 0.0200  |
| Total Xylenes                         |                   | 7.74 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 58.7 0.101      | 0.0421 0.0200   |
| Total BTEX                            |                   | 13.2 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0200 0.0200  | 117 0.101       | 0.0621 0.0200   |
| <b>Chloride by EPA 300</b>            | <b>Extracted:</b> | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 |
|                                       | <b>Analyzed:</b>  | Jan-30-20 22:38 | Jan-30-20 22:44 | Jan-30-20 22:51 | Jan-30-20 22:58 | Jan-30-20 23:04 | Jan-30-20 23:11 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 80.6 5.00       | <5.00 5.00      | 5.68 5.00       | 73.1 5.04       | 237 5.02        | 8.47 5.00       |
| <b>TPH by SW8015 Mod</b>              | <b>Extracted:</b> | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 |
|                                       | <b>Analyzed:</b>  | Feb-01-20 00:01 | Feb-01-20 00:22 | Feb-01-20 00:43 | Feb-01-20 01:04 | Feb-01-20 01:26 | Feb-01-20 01:47 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | 922 250         | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 3670 249        | <50.0 50.0      |
| Diesel Range Organics (DRO)           |                   | 2250 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 18600 249       | 109 50.0        |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 257 250         | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 2240 249        | <50.0 50.0      |
| Total TPH                             |                   | 3430 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 24500 249       | 109 50.0        |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>             | <b>Lab Id:</b>    | 650797-031      | 650797-032      | 650797-033      | 650797-034      | 650797-035      | 650797-036      |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                                       | <b>Field Id:</b>  | S-13 (5')       | S-13 (10')      | S-14 (1')       | S-14 (3')       | S-14 (5')       | S-14 (10')      |
|                                       | <b>Depth:</b>     |                 |                 |                 |                 |                 |                 |
|                                       | <b>Matrix:</b>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            |
|                                       | <b>Sampled:</b>   | Jan-23-20 12:39 | Jan-23-20 12:46 | Jan-23-20 12:47 | Jan-23-20 13:06 | Jan-23-20 13:07 | Jan-23-20 13:16 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <b>Extracted:</b> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 |
|                                       | <b>Analyzed:</b>  | Feb-01-20 16:10 | Feb-01-20 16:35 | Feb-02-20 01:03 | Feb-01-20 16:59 | Feb-01-20 17:24 | Feb-01-20 17:47 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Benzene                               |                   | <0.0200 0.0200  | <0.0200 0.0200  | 5.38 0.201      | <0.0199 0.0199  | <0.0198 0.0198  | <0.0199 0.0199  |
| Toluene                               |                   | <0.0200 0.0200  | <0.0200 0.0200  | 74.5 0.201      | <0.0199 0.0199  | <0.0198 0.0198  | <0.0199 0.0199  |
| Ethylbenzene                          |                   | <0.0200 0.0200  | <0.0200 0.0200  | 76.9 0.201      | 0.0299 0.0199   | <0.0198 0.0198  | <0.0199 0.0199  |
| m,p-Xylenes                           |                   | <0.0399 0.0399  | <0.0401 0.0401  | 128 0.402       | 0.0677 0.0398   | <0.0396 0.0396  | <0.0398 0.0398  |
| o-Xylene                              |                   | <0.0200 0.0200  | <0.0200 0.0200  | 53.9 0.201      | 0.0378 0.0199   | <0.0198 0.0198  | <0.0199 0.0199  |
| Total Xylenes                         |                   | <0.0200 0.0200  | <0.0200 0.0200  | 182 0.201       | 0.106 0.0199    | <0.0198 0.0198  | <0.0199 0.0199  |
| Total BTEX                            |                   | <0.0200 0.0200  | <0.0200 0.0200  | 339 0.201       | 0.135 0.0199    | <0.0198 0.0198  | <0.0199 0.0199  |
| <b>Chloride by EPA 300</b>            | <b>Extracted:</b> | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 |
|                                       | <b>Analyzed:</b>  | Jan-30-20 23:31 | Jan-30-20 23:37 | Jan-30-20 23:57 | Jan-31-20 00:04 | Jan-31-20 00:11 | Jan-31-20 00:17 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Chloride                              |                   | 7.85 4.99       | 48.3 5.03       | 566 4.98        | 17.2 4.97       | 12.9 5.03       | 53.2 4.95       |
| <b>TPH by SW8015 Mod</b>              | <b>Extracted:</b> | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 |
|                                       | <b>Analyzed:</b>  | Feb-01-20 02:30 | Feb-01-20 02:51 | Feb-01-20 03:12 | Feb-01-20 03:34 | Feb-01-20 03:55 | Feb-01-20 04:16 |
|                                       | <b>Units/RL:</b>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0      | <49.9 49.9      | 6200 249        | <50.0 50.0      | <50.0 50.0      | <49.8 49.8      |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0      | <49.9 49.9      | 24100 249       | 120 50.0        | <50.0 50.0      | <49.8 49.8      |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0      | <49.9 49.9      | 2470 249        | <50.0 50.0      | <50.0 50.0      | <49.8 49.8      |
| Total TPH                             |                   | <50.0 50.0      | <49.9 49.9      | 32800 249       | 120 50.0        | <50.0 50.0      | <49.8 49.8      |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-037      | 650797-038      | 650797-039      | 650797-040      | 650797-041      | 650797-042       |
|---------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
|                                       | <i>Field Id:</i>  | S-15 (1')       | S-15 (3')       | S-15 (5')       | S-15 (10')      | S-16(1')        | S-16 (3')        |
|                                       | <i>Depth:</i>     |                 |                 |                 |                 |                 |                  |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL            | SOIL            | SOIL            | SOIL            | SOIL             |
|                                       | <i>Sampled:</i>   | Jan-23-20 13:17 | Jan-23-20 13:39 | Jan-23-20 13:40 | Jan-23-20 13:56 | Jan-23-20 13:57 | Jan-24-20 11:05  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Jan-31-20 12:45 | Feb-05-20 16:00 | Feb-05-20 16:00  |
|                                       | <i>Analyzed:</i>  | Feb-02-20 01:28 | Feb-01-20 18:12 | Feb-01-20 18:36 | Feb-01-20 19:01 | Feb-06-20 01:24 | Feb-06-20 01:45  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Benzene                               |                   | 1.17 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | <0.0202 0.0202  | <0.00201 0.00201 |
| Toluene                               |                   | 16.0 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | 0.943 0.0202    | <0.00201 0.00201 |
| Ethylbenzene                          |                   | 20.5 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | 2.02 0.0202     | <0.00201 0.00201 |
| m,p-Xylenes                           |                   | 31.1 0.199      | <0.0397 0.0397  | <0.0399 0.0399  | <0.0398 0.0398  | 3.78 0.0403     | <0.00402 0.00402 |
| o-Xylene                              |                   | 13.7 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | 1.61 0.0202     | 0.00340 0.00201  |
| Total Xylenes                         |                   | 44.8 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | 5.39 0.0202     | 0.00340 0.00201  |
| Total BTEX                            |                   | 82.5 0.0994     | <0.0198 0.0198  | <0.0200 0.0200  | <0.0199 0.0199  | 8.35 0.0202     | 0.00340 0.00201  |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-30-20 16:50 | Jan-31-20 08:00 | Jan-31-20 08:00 | Jan-31-20 08:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 00:24 | Jan-31-20 00:31 | Jan-31-20 00:37 | Jan-31-20 09:04 | Jan-31-20 09:24 | Jan-31-20 09:31  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Chloride                              |                   | 198 4.95        | <5.02 5.02      | 51.7 5.00       | 34.6 5.04       | 188 4.96        | <5.00 5.00       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 14:15 | Jan-31-20 16:00 | Jan-31-20 16:00  |
|                                       | <i>Analyzed:</i>  | Feb-01-20 04:38 | Feb-01-20 04:59 | Feb-01-20 05:20 | Feb-01-20 05:42 | Jan-31-20 22:58 | Jan-31-20 21:56  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | 2180 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 733 249         | <50.0 50.0       |
| Diesel Range Organics (DRO)           |                   | 14300 250       | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 4030 249        | <50.0 50.0       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 1420 250        | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 355 249         | <50.0 50.0       |
| Total TPH                             |                   | 17900 250       | <50.0 50.0      | <49.9 49.9      | <50.0 50.0      | 5120 249        | <50.0 50.0       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-043       | 650797-044       | 650797-045      | 650797-046       | 650797-047       | 650797-048       |
|---------------------------------------|-------------------|------------------|------------------|-----------------|------------------|------------------|------------------|
|                                       | <i>Field Id:</i>  | S-16 (5')        | S-16 (10')       | S-17 (1')       | S-17 (3')        | S-17 (5')        | S-17 (7')        |
|                                       | <i>Depth:</i>     |                  |                  |                 |                  |                  |                  |
|                                       | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL            | SOIL             | SOIL             | SOIL             |
|                                       | <i>Sampled:</i>   | Jan-24-20 11:06  | Jan-24-20 11:10  | Jan-24-20 11:11 | Jan-24-20 11:32  | Jan-24-20 11:33  | Jan-24-20 11:38  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Feb-05-20 16:00  | Feb-05-20 16:00  | Jan-31-20 12:00 | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00  |
|                                       | <i>Analyzed:</i>  | Feb-06-20 02:05  | Feb-06-20 02:25  | Jan-31-20 23:07 | Jan-31-20 15:59  | Jan-31-20 16:20  | Jan-31-20 16:40  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                               |                   | <0.00200 0.00200 | <0.00202 0.00202 | 0.423 0.198     | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| Toluene                               |                   | <0.00200 0.00200 | <0.00202 0.00202 | 13.1 0.198      | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| Ethylbenzene                          |                   | <0.00200 0.00200 | <0.00202 0.00202 | 14.5 0.198      | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| m,p-Xylenes                           |                   | <0.00401 0.00401 | <0.00403 0.00403 | 25.8 0.395      | <0.00399 0.00399 | <0.00395 0.00395 | <0.00400 0.00400 |
| o-Xylene                              |                   | <0.00200 0.00200 | <0.00202 0.00202 | 12.1 0.198      | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| Total Xylenes                         |                   | <0.00200 0.00200 | <0.00202 0.00202 | 37.9 0.198      | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| Total BTEX                            |                   | <0.00200 0.00200 | <0.00202 0.00202 | 65.9 0.198      | <0.00200 0.00200 | <0.00198 0.00198 | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 08:00  | Jan-31-20 08:00  | Jan-31-20 08:00 | Jan-31-20 08:00  | Jan-31-20 08:00  | Jan-31-20 08:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 09:37  | Jan-31-20 10:04  | Jan-31-20 10:11 | Jan-31-20 10:17  | Jan-31-20 10:24  | Jan-31-20 10:31  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                              |                   | 36.8 5.02        | 27.4 5.05        | 242 4.98        | <5.00 5.00       | <5.05 5.05       | 12.0 5.05        |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 16:00  | Jan-31-20 16:00  | Jan-31-20 16:00 | Jan-31-20 16:00  | Jan-31-20 16:00  | Jan-31-20 16:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 23:19  | Jan-31-20 23:40  | Feb-01-20 00:01 | Feb-01-20 00:22  | Feb-01-20 00:43  | Feb-01-20 01:04  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0       | <49.9 49.9       | 2760 249        | <50.0 50.0       | <50.0 50.0       | <50.0 50.0       |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0       | <49.9 49.9       | 14800 249       | <50.0 50.0       | <50.0 50.0       | <50.0 50.0       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0       | <49.9 49.9       | 1340 249        | <50.0 50.0       | <50.0 50.0       | <50.0 50.0       |
| Total TPH                             |                   | <50.0 50.0       | <49.9 49.9       | 18900 249       | <50.0 50.0       | <50.0 50.0       | <50.0 50.0       |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-049      | 650797-050       | 650797-051       | 650797-052       | 650797-053      | 650797-054       |
|---------------------------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
|                                       | <i>Field Id:</i>  | S-19 (1')       | S-19 (3')        | S-19 (5')        | S-19 (10')       | S-20 (1')       | S-20 (3')        |
|                                       | <i>Depth:</i>     |                 |                  |                  |                  |                 |                  |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL             | SOIL             | SOIL             | SOIL            | SOIL             |
|                                       | <i>Sampled:</i>   | Jan-24-20 11:39 | Jan-24-20 12:32  | Jan-24-20 12:33  | Jan-24-20 12:37  | Jan-24-20 12:38 | Jan-24-20 12:53  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:00 | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00 | Jan-31-20 12:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 21:46 | Jan-31-20 17:00  | Jan-31-20 17:21  | Jan-31-20 17:41  | Jan-31-20 23:28 | Jan-31-20 18:01  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Benzene                               |                   | 0.134 0.0625    | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 1.94 0.199      | <0.00198 0.00198 |
| Toluene                               |                   | 4.30 0.0625     | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 21.1 0.199      | <0.00198 0.00198 |
| Ethylbenzene                          |                   | 4.63 0.0625     | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 19.8 0.199      | <0.00198 0.00198 |
| m,p-Xylenes                           |                   | 11.1 0.125      | <0.00399 0.00399 | <0.00399 0.00399 | <0.00399 0.00399 | 34.0 0.398      | <0.00396 0.00396 |
| o-Xylene                              |                   | 6.51 0.0625     | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 16.5 0.199      | <0.00198 0.00198 |
| Total Xylenes                         |                   | 17.6 0.0625     | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 50.5 0.199      | <0.00198 0.00198 |
| Total BTEX                            |                   | 26.7 0.0625     | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | 93.3 0.199      | <0.00198 0.00198 |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 08:00 | Jan-31-20 08:00  | Jan-31-20 08:00  | Jan-31-20 08:00  | Jan-31-20 08:00 | Jan-31-20 08:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 10:37 | Jan-31-20 10:44  | Jan-31-20 11:04  | Jan-31-20 11:24  | Jan-31-20 11:30 | Jan-31-20 11:37  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Chloride                              |                   | 1350 5.00       | 10.8 5.00        | <4.96 4.96       | <4.99 4.99       | 480 5.02        | <5.05 5.05       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 16:00 | Jan-31-20 16:00  | Jan-31-20 16:00  | Jan-31-20 16:00  | Jan-31-20 16:00 | Jan-31-20 16:00  |
|                                       | <i>Analyzed:</i>  | Feb-01-20 01:26 | Feb-01-20 01:47  | Feb-01-20 02:30  | Feb-01-20 02:51  | Feb-01-20 03:12 | Feb-01-20 03:34  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | 1410 250        | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | 2410 249        | <50.0 50.0       |
| Diesel Range Organics (DRO)           |                   | 7410 250        | 84.8 50.0        | <50.0 50.0       | <49.8 49.8       | 15100 249       | 90.2 50.0        |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 669 250         | <50.0 50.0       | <50.0 50.0       | <49.8 49.8       | 1350 249        | <50.0 50.0       |
| Total TPH                             |                   | 9490 250        | 84.8 50.0        | <50.0 50.0       | <49.8 49.8       | 18900 249       | 90.2 50.0        |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| Analysis Requested                 | Lab Id:    | 650797-055       | 650797-056      | 650797-057      | 650797-058       | 650797-059       | 650797-060      |
|------------------------------------|------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|
|                                    | Field Id:  | S-20 (5')        | S-20 (7')       | S-21 (1')       | S-21 (3')        | S-21 (5')        | S-22 (1')       |
|                                    | Depth:     |                  |                 |                 |                  |                  |                 |
|                                    | Matrix:    | SOIL             | SOIL            | SOIL            | SOIL             | SOIL             | SOIL            |
|                                    | Sampled:   | Jan-24-20 12:54  | Jan-24-20 12:58 | Jan-24-20 12:59 | Jan-24-20 13:15  | Jan-24-20 13:16  | Jan-24-20 13:17 |
| BTX by EPA 8021B<br>NO_CERT#       | Extracted: | Jan-31-20 12:00  | Jan-31-20 12:00 | Jan-31-20 12:00 | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00 |
|                                    | Analyzed:  | Jan-31-20 18:22  | Jan-31-20 18:42 | Jan-31-20 22:06 | Jan-31-20 19:43  | Jan-31-20 20:04  | Jan-31-20 22:27 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Benzene                            |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.00258 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.0833 0.0833  |
| Toluene                            |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.117 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 | 1.90 0.0833     |
| Ethylbenzene                       |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.187 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 | 4.52 0.0833     |
| m,p-Xylenes                        |            | <0.00401 0.00401 | <0.0800 0.0800  | 0.388 0.00399   | <0.00399 0.00399 | <0.00399 0.00399 | 9.08 0.167      |
| o-Xylene                           |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.204 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 | 5.07 0.0833     |
| Total Xylenes                      |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.592 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 | 14.2 0.0833     |
| Total BTX                          |            | <0.00200 0.00200 | <0.0400 0.0400  | 0.899 0.00200   | <0.00200 0.00200 | <0.00200 0.00200 | 20.6 0.0833     |
| Chloride by EPA 300                | Extracted: | Jan-31-20 08:00  | Jan-31-20 08:00 | Jan-31-20 08:00 | Jan-31-20 08:00  | Jan-31-20 08:00  | Jan-31-20 09:00 |
|                                    | Analyzed:  | Jan-31-20 11:44  | Jan-31-20 11:50 | Jan-31-20 11:57 | Jan-31-20 12:04  | Jan-31-20 12:10  | Jan-31-20 09:50 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Chloride                           |            | <5.05 5.05       | <5.00 5.00      | 850 4.96        | 5.47 4.98        | <5.00 5.00       | 53.4 5.05       |
| TPH by SW8015 Mod                  | Extracted: | Jan-31-20 16:00  | Jan-31-20 16:00 | Jan-31-20 16:00 | Jan-31-20 16:00  | Jan-31-20 16:00  | Jan-31-20 16:00 |
|                                    | Analyzed:  | Feb-01-20 03:55  | Feb-01-20 04:16 | Feb-01-20 04:38 | Feb-01-20 04:59  | Feb-01-20 05:20  | Feb-01-20 05:42 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)  |            | <50.0 50.0       | <50.0 50.0      | 1330 249        | <49.8 49.8       | <50.0 50.0       | 1100 250        |
| Diesel Range Organics (DRO)        |            | <50.0 50.0       | <50.0 50.0      | 12600 249       | <49.8 49.8       | <50.0 50.0       | 10500 250       |
| Motor Oil Range Hydrocarbons (MRO) |            | <50.0 50.0       | <50.0 50.0      | 1380 249        | <49.8 49.8       | <50.0 50.0       | 925 250         |
| Total TPH                          |            | <50.0 50.0       | <50.0 50.0      | 15300 249       | <49.8 49.8       | <50.0 50.0       | 12500 250       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>             | <b>Lab Id:</b>    | 650797-061       | 650797-062       | 650797-063       | 650797-064      | 650797-065       | 650797-066       |
|---------------------------------------|-------------------|------------------|------------------|------------------|-----------------|------------------|------------------|
|                                       | <b>Field Id:</b>  | S-22 (3')        | S-22 (5')        | S-22 (10')       | S-23 (1')       | S-23 (3')        | S-23 (5')        |
|                                       | <b>Depth:</b>     |                  |                  |                  |                 |                  |                  |
|                                       | <b>Matrix:</b>    | SOIL             | SOIL             | SOIL             | SOIL            | SOIL             | SOIL             |
|                                       | <b>Sampled:</b>   | Jan-24-20 13:24  | Jan-24-20 13:25  | Jan-24-20 13:46  | Jan-27-20 12:45 | Jan-27-20 12:46  | Jan-27-20 12:55  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <b>Extracted:</b> | Jan-31-20 12:00  | Jan-31-20 12:00  | Feb-05-20 16:00  | Feb-06-20 09:00 | Jan-31-20 12:00  | Jan-31-20 12:00  |
|                                       | <b>Analyzed:</b>  | Jan-31-20 20:24  | Jan-31-20 20:45  | Feb-06-20 03:44  | Feb-06-20 15:25 | Jan-31-20 21:05  | Jan-31-20 21:25  |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Benzene                               |                   | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 | 0.0301 0.0200   | <0.00200 0.00200 | <0.00200 0.00200 |
| Toluene                               |                   | <0.00200 0.00200 | <0.00199 0.00199 | <0.00199 0.00199 | 0.107 0.0200    | <0.00200 0.00200 | <0.00200 0.00200 |
| Ethylbenzene                          |                   | 0.00241 0.00200  | <0.00199 0.00199 | <0.00199 0.00199 | 1.60 0.0200     | <0.00200 0.00200 | <0.00200 0.00200 |
| m,p-Xylenes                           |                   | 0.00623 0.00399  | <0.00398 0.00398 | <0.00398 0.00398 | 4.29 0.0399     | <0.00400 0.00400 | <0.00400 0.00400 |
| o-Xylene                              |                   | 0.00376 0.00200  | <0.00199 0.00199 | <0.00199 0.00199 | 2.15 0.0200     | <0.00200 0.00200 | <0.00200 0.00200 |
| Total Xylenes                         |                   | 0.00999 0.00200  | <0.00199 0.00199 | <0.00199 0.00199 | 6.44 0.0200     | <0.00200 0.00200 | <0.00200 0.00200 |
| Total BTEX                            |                   | 0.0124 0.00200   | <0.00199 0.00199 | <0.00199 0.00199 | 8.18 0.0200     | <0.00200 0.00200 | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>            | <b>Extracted:</b> | Jan-31-20 09:00  | Jan-31-20 09:00  | Jan-31-20 09:00  | Jan-31-20 09:00 | Jan-31-20 09:00  | Jan-31-20 09:00  |
|                                       | <b>Analyzed:</b>  | Jan-31-20 10:10  | Jan-31-20 10:17  | Jan-31-20 10:23  | Jan-31-20 10:58 | Jan-31-20 11:05  | Jan-31-20 11:12  |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Chloride                              |                   | 16.8 4.99        | 8.80 4.96        | 18.6 4.95        | 36.7 5.02       | 10.2 5.05        | 9.96 5.05        |
| <b>TPH by SW8015 Mod</b>              | <b>Extracted:</b> | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00  |
|                                       | <b>Analyzed:</b>  | Jan-31-20 12:30  | Jan-31-20 13:33  | Jan-31-20 13:54  | Jan-31-20 14:15 | Jan-31-20 14:36  | Jan-31-20 14:57  |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       | 352 250         | <49.9 49.9       | <50.0 50.0       |
| Diesel Range Organics (DRO)           |                   | 50.7 50.0        | <50.0 50.0       | <49.9 49.9       | 4240 250        | <49.9 49.9       | <50.0 50.0       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       | 412 250         | <49.9 49.9       | <50.0 50.0       |
| Total TPH                             |                   | 50.7 50.0        | <50.0 50.0       | <49.9 49.9       | 5000 250        | <49.9 49.9       | <50.0 50.0       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-067       | 650797-068      | 650797-069      | 650797-070       | 650797-071       | 650797-072      |
|---------------------------------------|-------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|
|                                       | <i>Field Id:</i>  | S-23 (10')       | S-25 (1')       | S-25 (3')       | S-25 (5')        | S-25 (10')       | S-26 (1')       |
|                                       | <i>Depth:</i>     |                  |                 |                 |                  |                  |                 |
|                                       | <i>Matrix:</i>    | SOIL             | SOIL            | SOIL            | SOIL             | SOIL             | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-27-20 12:56  | Jan-27-20 13:07 | Jan-27-20 13:08 | Jan-27-20 13:13  | Jan-27-20 13:14  | Jan-27-20 13:25 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:00  | Jan-31-20 17:00 | Jan-31-20 17:00 | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 17:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 13:50  | Feb-01-20 13:33 | Feb-01-20 13:53 | Jan-31-20 14:30  | Jan-31-20 15:27  | Feb-01-20 14:14 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Benzene                               |                   | <0.00200 0.00200 | 0.182 0.0505    | <0.0501 0.0501  | <0.00199 0.00199 | <0.00200 0.00200 | <0.0499 0.0499  |
| Toluene                               |                   | <0.00200 0.00200 | 8.87 0.202      | 4.09 0.200      | <0.00199 0.00199 | <0.00200 0.00200 | 2.06 0.200      |
| Ethylbenzene                          |                   | <0.00200 0.00200 | 19.1 0.202      | 6.55 0.200      | <0.00199 0.00199 | <0.00200 0.00200 | 3.29 0.200      |
| m,p-Xylenes                           |                   | <0.00401 0.00401 | 40.2 0.404      | 15.9 0.401      | <0.00398 0.00398 | <0.00400 0.00400 | 6.69 0.399      |
| o-Xylene                              |                   | <0.00200 0.00200 | 17.3 0.202      | 7.50 0.200      | <0.00199 0.00199 | <0.00200 0.00200 | 3.01 0.200      |
| Total Xylenes                         |                   | <0.00200 0.00200 | 57.5 0.202      | 23.4 0.200      | <0.00199 0.00199 | <0.00200 0.00200 | 9.70 0.200      |
| Total BTEX                            |                   | <0.00200 0.00200 | 85.7 0.0505     | 34.0 0.0501     | <0.00199 0.00199 | <0.00200 0.00200 | 15.1 0.0499     |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 09:00  | Jan-31-20 09:00 | Jan-31-20 09:00 | Jan-31-20 09:00  | Jan-31-20 09:00  | Jan-31-20 09:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 11:18  | Jan-31-20 11:25 | Jan-31-20 11:32 | Jan-31-20 11:38  | Jan-31-20 11:58  | Jan-31-20 12:18 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Chloride                              |                   | 19.1 5.00        | 23.1 5.03       | 72.1 5.01       | 11.2 5.00        | 8.96 4.96        | 21.3 4.99       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 15:18  | Jan-31-20 15:39 | Jan-31-20 16:00 | Jan-31-20 16:20  | Jan-31-20 17:02  | Jan-31-20 17:24 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <49.9 49.9       | 1210 250        | 1560 250        | <49.9 49.9       | <49.8 49.8       | 1260 250        |
| Diesel Range Organics (DRO)           |                   | <49.9 49.9       | 8800 250        | 33400 250       | 193 49.9         | <49.8 49.8       | 12300 250       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <49.9 49.9       | 775 250         | 3230 250        | <49.9 49.9       | <49.8 49.8       | 1060 250        |
| Total TPH                             |                   | <49.9 49.9       | 10800 250       | 38200 250       | 193 49.9         | <49.8 49.8       | 14600 250       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-073       | 650797-074       | 650797-075       | 650797-076      | 650797-077       | 650797-078       |
|---------------------------------------|-------------------|------------------|------------------|------------------|-----------------|------------------|------------------|
|                                       | <i>Field Id:</i>  | S-26 (3')        | S-26 (5')        | S-26 (10')       | S-27 (1')       | S-27 (3')        | S-27 (5')        |
|                                       | <i>Depth:</i>     |                  |                  |                  |                 |                  |                  |
|                                       | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL            | SOIL             | SOIL             |
|                                       | <i>Sampled:</i>   | Jan-27-20 13:26  | Jan-27-20 13:32  | Jan-27-20 13:33  | Jan-27-20 13:45 | Jan-27-20 13:46  | Jan-27-20 13:55  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 17:00 | Jan-31-20 12:00  | Jan-31-20 12:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 15:47  | Jan-31-20 16:07  | Jan-31-20 16:28  | Feb-01-20 14:34 | Jan-31-20 16:48  | Jan-31-20 17:09  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Benzene                               |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 0.0642 0.0494   | <0.00201 0.00201 | <0.00198 0.00198 |
| Toluene                               |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 8.59 0.198      | <0.00201 0.00201 | <0.00198 0.00198 |
| Ethylbenzene                          |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 12.5 0.198      | <0.00201 0.00201 | <0.00198 0.00198 |
| m,p-Xylenes                           |                   | <0.00402 0.00402 | <0.00404 0.00404 | <0.00403 0.00403 | 23.4 0.395      | <0.00402 0.00402 | <0.00397 0.00397 |
| o-Xylene                              |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 9.68 0.198      | <0.00201 0.00201 | <0.00198 0.00198 |
| Total Xylenes                         |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 33.1 0.198      | <0.00201 0.00201 | <0.00198 0.00198 |
| Total BTEX                            |                   | <0.00201 0.00201 | <0.00202 0.00202 | <0.00202 0.00202 | 54.2 0.0494     | <0.00201 0.00201 | <0.00198 0.00198 |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 09:00  | Jan-31-20 09:00  | Jan-31-20 09:00  | Jan-31-20 09:00 | Jan-31-20 09:00  | Jan-31-20 09:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 12:25  | Jan-31-20 12:32  | Jan-31-20 12:38  | Jan-31-20 12:45 | Jan-31-20 12:52  | Jan-31-20 12:58  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Chloride                              |                   | 14.5 5.00        | 12.1 4.97        | 57.0 24.8        | 82.9 4.99       | 15.2 4.97        | 45.7 4.96        |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 17:45  | Jan-31-20 18:05  | Jan-31-20 18:26  | Jan-31-20 18:47 | Jan-31-20 19:08  | Jan-31-20 19:29  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0       | <49.8 49.8       | <49.9 49.9       | 2160 250        | <50.0 50.0       | <49.9 49.9       |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0       | <49.8 49.8       | <49.9 49.9       | 20100 250       | 141 50.0         | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0       | <49.8 49.8       | <49.9 49.9       | 1880 250        | <50.0 50.0       | <49.9 49.9       |
| Total TPH                             |                   | <50.0 50.0       | <49.8 49.8       | <49.9 49.9       | 24100 250       | 141 50.0         | <49.9 49.9       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <b>Analysis Requested</b>             | <b>Lab Id:</b>    | 650797-079       | 650797-080      | 650797-081       | 650797-082       | 650797-083       | 650797-084      |
|---------------------------------------|-------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|
|                                       | <b>Field Id:</b>  | S-27 (10')       | S-28 (1')       | S-28 (3')        | S-28 (5')        | S-28 (10')       | S-2 (1')        |
|                                       | <b>Depth:</b>     |                  |                 |                  |                  |                  |                 |
|                                       | <b>Matrix:</b>    | SOIL             | SOIL            | SOIL             | SOIL             | SOIL             | SOIL            |
|                                       | <b>Sampled:</b>   | Jan-27-20 13:56  | Jan-27-20 14:07 | Jan-27-20 14:08  | Jan-27-20 14:15  | Jan-27-20 14:16  | Jan-28-20 09:51 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <b>Extracted:</b> | Jan-31-20 12:00  | Jan-31-20 17:00 | Jan-31-20 12:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00 |
|                                       | <b>Analyzed:</b>  | Jan-31-20 17:29  | Feb-01-20 14:55 | Jan-31-20 17:49  | Feb-01-20 04:42  | Feb-01-20 06:04  | Feb-01-20 15:35 |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Benzene                               |                   | <0.00200 0.00200 | <0.0500 0.0500  | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 10.7 2.17       |
| Toluene                               |                   | <0.00200 0.00200 | 2.06 0.200      | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 257 2.17        |
| Ethylbenzene                          |                   | <0.00200 0.00200 | 3.01 0.200      | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 244 2.17        |
| m,p-Xylenes                           |                   | <0.00401 0.00401 | 2.92 0.400      | <0.00398 0.00398 | <0.00402 0.00402 | <0.00403 0.00403 | 428 4.35        |
| o-Xylene                              |                   | <0.00200 0.00200 | 2.76 0.200      | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 163 2.17        |
| Total Xylenes                         |                   | <0.00200 0.00200 | 5.68 0.200      | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 591 2.17        |
| Total BTEX                            |                   | <0.00200 0.00200 | 10.8 0.0500     | <0.00199 0.00199 | <0.00201 0.00201 | <0.00202 0.00202 | 1100 2.17       |
| <b>Chloride by EPA 300</b>            | <b>Extracted:</b> | Jan-31-20 09:00  | Jan-31-20 12:00 | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00 |
|                                       | <b>Analyzed:</b>  | Jan-31-20 13:05  | Jan-31-20 13:02 | Jan-31-20 13:22  | Jan-31-20 13:29  | Jan-31-20 13:35  | Jan-31-20 13:42 |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Chloride                              |                   | 130 4.99         | 63.7 5.03       | <4.98 4.98       | <4.99 4.99       | <4.98 4.98       | 479 5.02        |
| <b>TPH by SW8015 Mod</b>              | <b>Extracted:</b> | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 |
|                                       | <b>Analyzed:</b>  | Jan-31-20 19:50  | Jan-31-20 20:11 | Feb-01-20 08:44  | Jan-31-20 14:14  | Jan-31-20 14:33  | Jan-31-20 14:52 |
|                                       | <b>Units/RL:</b>  | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0       | 511 250         | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | 6380 250        |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0       | 7910 250        | 58.8 49.9        | <49.8 49.8       | <50.0 50.0       | 16000 250       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0       | 908 250         | <49.9 49.9       | <49.8 49.8       | <50.0 50.0       | 1930 250        |
| Total TPH                             |                   | <50.0 50.0       | 9330 250        | 58.8 49.9        | <49.8 49.8       | <50.0 50.0       | 24300 250       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-085       | 650797-086       | 650797-087       | 650797-088      | 650797-089      | 650797-090       |
|---------------------------------------|-------------------|------------------|------------------|------------------|-----------------|-----------------|------------------|
|                                       | <i>Field Id:</i>  | S-2 (3')         | S-2 (5')         | S-2 (10')        | S-4 (1')        | S-4 (3')        | S-4 (5')         |
|                                       | <i>Depth:</i>     |                  |                  |                  |                 |                 |                  |
|                                       | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL            | SOIL            | SOIL             |
|                                       | <i>Sampled:</i>   | Jan-28-20 09:52  | Jan-28-20 10:15  | Jan-24-20 10:16  | Jan-28-20 10:20 | Jan-28-20 10:21 | Jan-28-20 10:30  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00 | Jan-31-20 17:00 | Jan-31-20 17:00  |
|                                       | <i>Analyzed:</i>  | Feb-01-20 06:24  | Feb-01-20 06:44  | Feb-01-20 01:38  | Feb-01-20 15:56 | Feb-01-20 07:05 | Feb-01-20 07:25  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Benzene                               |                   | <0.00200 0.00200 | <0.00202 0.00202 | <0.00199 0.00199 | <0.0250 0.0250  | 0.00245 0.00199 | <0.00200 0.00200 |
| Toluene                               |                   | 0.00256 0.00200  | <0.00202 0.00202 | <0.00199 0.00199 | 0.899 0.0998    | 0.0124 0.00199  | <0.00200 0.00200 |
| Ethylbenzene                          |                   | 0.00558 0.00200  | <0.00202 0.00202 | <0.00199 0.00199 | 1.21 0.0998     | 0.00362 0.00199 | <0.00200 0.00200 |
| m,p-Xylenes                           |                   | 0.0142 0.00400   | <0.00403 0.00403 | <0.00398 0.00398 | 8.40 0.200      | 0.0132 0.00398  | <0.00400 0.00400 |
| o-Xylene                              |                   | 0.00733 0.00200  | <0.00202 0.00202 | <0.00199 0.00199 | 3.35 0.0998     | 0.00637 0.00199 | <0.00200 0.00200 |
| Total Xylenes                         |                   | 0.0215 0.00200   | <0.00202 0.00202 | <0.00199 0.00199 | 11.8 0.0998     | 0.0196 0.00199  | <0.00200 0.00200 |
| Total BTEX                            |                   | 0.0297 0.00200   | <0.00202 0.00202 | <0.00199 0.00199 | 13.9 0.0250     | 0.0380 0.00199  | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00  | Jan-31-20 12:00 | Jan-31-20 12:00 | Jan-31-20 12:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 14:02  | Jan-31-20 14:08  | Jan-31-20 14:15  | Jan-31-20 14:22 | Jan-31-20 14:28 | Jan-31-20 14:35  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Chloride                              |                   | 32.0 4.96        | <4.97 4.97       | 80.2 4.99        | 3280 24.8       | 4750 25.1       | 108 5.00         |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00 | Jan-31-20 10:00  |
|                                       | <i>Analyzed:</i>  | Jan-31-20 15:10  | Jan-31-20 15:29  | Jan-31-20 17:26  | Jan-31-20 17:45 | Feb-01-20 09:02 | Jan-31-20 18:22  |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)     |                   | <49.8 49.8       | <50.0 50.0       | <50.0 50.0       | 1530 250        | <49.9 49.9      | <49.9 49.9       |
| Diesel Range Organics (DRO)           |                   | 77.0 49.8        | <50.0 50.0       | <50.0 50.0       | 8930 250        | <49.9 49.9      | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <49.8 49.8       | <50.0 50.0       | <50.0 50.0       | 1060 250        | <49.9 49.9      | <49.9 49.9       |
| Total TPH                             |                   | 77.0 49.8        | <50.0 50.0       | <50.0 50.0       | 11500 250       | <49.9 49.9      | <49.9 49.9       |

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Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-091       | 650797-092      | 650797-093      | 650797-094       | 650797-095       | 650797-096      |
|---------------------------------------|-------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|
|                                       | <i>Field Id:</i>  | S-4 (10')        | S-31 (1')       | S-31 (3')       | S-31 (5')        | S-31 (10')       | S-32 (1')       |
|                                       | <i>Depth:</i>     |                  |                 |                 |                  |                  |                 |
|                                       | <i>Matrix:</i>    | SOIL             | SOIL            | SOIL            | SOIL             | SOIL             | SOIL            |
|                                       | <i>Sampled:</i>   | Jan-28-20 10:31  | Jan-28-20 00:00 | Jan-28-20 00:00 | Jan-28-20 00:00  | Jan-28-20 00:00  | Jan-28-20 00:00 |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Jan-31-20 17:00  | Feb-06-20 09:00 | Feb-06-20 09:00 | Feb-06-20 09:00  | Feb-06-20 09:00  | Feb-06-20 09:00 |
|                                       | <i>Analyzed:</i>  | Feb-01-20 07:46  | Feb-06-20 15:45 | Feb-06-20 16:05 | Feb-06-20 11:45  | Feb-06-20 12:05  | Feb-06-20 16:25 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Benzene                               |                   | <0.00200 0.00200 | 0.0257 0.0200   | <0.0201 0.0201  | <0.00202 0.00202 | <0.00200 0.00200 | <0.0199 0.0199  |
| Toluene                               |                   | <0.00200 0.00200 | 1.95 0.0200     | 0.777 0.0201    | <0.00202 0.00202 | <0.00200 0.00200 | 1.95 0.0199     |
| Ethylbenzene                          |                   | <0.00200 0.00200 | 6.72 D 0.200    | 4.93 D 0.201    | <0.00202 0.00202 | <0.00200 0.00200 | 6.99 D 0.199    |
| m,p-Xylenes                           |                   | <0.00400 0.00400 | 21.1 D 0.399    | 12.4 D 0.402    | <0.00404 0.00404 | <0.00401 0.00401 | 19.8 D 0.398    |
| o-Xylene                              |                   | <0.00200 0.00200 | 10.0 D 0.200    | 6.56 D 0.201    | <0.00202 0.00202 | <0.00200 0.00200 | 9.55 D 0.199    |
| Total Xylenes                         |                   | <0.00200 0.00200 | 31.1 0.200      | 19.0 0.201      | <0.00202 0.00202 | <0.00200 0.00200 | 29.4 0.199      |
| Total BTEX                            |                   | <0.00200 0.00200 | 39.8 0.0200     | 24.7 0.0201     | <0.00202 0.00202 | <0.00200 0.00200 | 38.3 0.0199     |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Jan-31-20 12:00  | Feb-02-20 11:45 | Feb-02-20 11:45 | Feb-02-20 11:45  | Feb-02-20 11:45  | Feb-02-20 11:45 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 14:55  | Feb-02-20 14:02 | Feb-02-20 13:42 | Feb-02-20 14:09  | Feb-02-20 15:15  | Feb-02-20 16:15 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Chloride                              |                   | 125 4.96         | 1780 25.1       | 165 4.97        | 6.34 5.03        | 27.8 4.98        | 2070 25.2       |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00  | Jan-31-20 10:00 |
|                                       | <i>Analyzed:</i>  | Jan-31-20 19:00  | Jan-31-20 19:18 | Jan-31-20 19:37 | Jan-31-20 19:56  | Jan-31-20 20:14  | Jan-31-20 20:33 |
|                                       | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL        |
| Gasoline Range Hydrocarbons (GRO)     |                   | <50.0 50.0       | 2080 249        | 971 250         | <50.0 50.0       | <49.9 49.9       | 2140 250        |
| Diesel Range Organics (DRO)           |                   | <50.0 50.0       | 19900 249       | 4640 250        | <50.0 50.0       | <49.9 49.9       | 14400 250       |
| Motor Oil Range Hydrocarbons (MRO)    |                   | <50.0 50.0       | 2460 249        | 525 250         | <50.0 50.0       | <49.9 49.9       | 1640 250        |
| Total TPH                             |                   | <50.0 50.0       | 24400 249       | 6140 250        | <50.0 50.0       | <49.9 49.9       | 18200 250       |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
Contact: Mark Larson  
Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
Report Date: 10-FEB-20  
Project Manager: Holly Taylor

| Analysis Requested                 | Lab Id:    | 650797-097      | 650797-098       | 650797-099      | 650797-100       | 650797-101       | 650797-102       |
|------------------------------------|------------|-----------------|------------------|-----------------|------------------|------------------|------------------|
|                                    | Field Id:  | S-32 (3')       | S-32 (5')        | S-33 (1')       | S-33 (3')        | S-33 (5')        | S-33 (10')       |
|                                    | Depth:     |                 |                  |                 |                  |                  |                  |
|                                    | Matrix:    | SOIL            | SOIL             | SOIL            | SOIL             | SOIL             | SOIL             |
|                                    | Sampled:   | Jan-28-20 00:00 | Jan-28-20 00:00  | Jan-28-20 00:00 | Jan-28-20 00:00  | Jan-28-20 00:00  | Jan-28-20 00:00  |
| BTEX by EPA 8021B<br>NO_CERT#      | Extracted: | Feb-06-20 09:00 | Feb-06-20 09:00  | Feb-06-20 09:00 | Feb-06-20 09:00  | Feb-06-20 09:00  | Feb-06-20 09:00  |
|                                    | Analyzed:  | Feb-06-20 16:45 | Feb-06-20 12:25  | Feb-06-20 17:05 | Feb-06-20 12:45  | Feb-06-20 13:05  | Feb-06-20 14:24  |
|                                    | Units/RL:  | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |            | <0.0200 0.0200  | <0.00200 0.00200 | <0.0200 0.0200  | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| Toluene                            |            | 0.368 0.0200    | <0.00200 0.00200 | 0.0830 0.0200   | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| Ethylbenzene                       |            | 0.185 0.0200    | <0.00200 0.00200 | 0.576 0.0200    | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| m,p-Xylenes                        |            | 0.284 0.0400    | <0.00400 0.00400 | 1.98 0.0401     | <0.00398 0.00398 | <0.00397 0.00397 | <0.00397 0.00397 |
| o-Xylene                           |            | 0.378 0.0200    | <0.00200 0.00200 | 1.13 0.0200     | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| Total Xylenes                      |            | 0.662 0.0200    | <0.00200 0.00200 | 3.11 0.0200     | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| Total BTEX                         |            | 1.22 0.0200     | <0.00200 0.00200 | 3.77 0.0200     | <0.00199 0.00199 | <0.00198 0.00198 | <0.00198 0.00198 |
| Chloride by EPA 300                | Extracted: | Feb-02-20 11:45 | Feb-02-20 11:45  | Feb-02-20 11:45 | Feb-02-20 11:45  | Feb-02-20 12:30  | Feb-02-20 12:30  |
|                                    | Analyzed:  | Feb-02-20 16:22 | Feb-02-20 16:28  | Feb-02-20 16:35 | Feb-02-20 16:42  | Feb-02-20 13:20  | Feb-02-20 13:40  |
|                                    | Units/RL:  | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |            | 554 4.98        | <5.00 5.00       | 484 5.04        | 8.24 5.05        | <5.01 5.01       | <5.02 5.02       |
| TPH by SW8015 Mod                  | Extracted: | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 10:00 | Jan-31-20 10:00  | Jan-31-20 13:00  | Jan-31-20 13:00  |
|                                    | Analyzed:  | Jan-31-20 20:52 | Jan-31-20 21:12  | Jan-31-20 21:31 | Jan-31-20 21:50  | Feb-01-20 00:44  | Feb-01-20 01:03  |
|                                    | Units/RL:  | mg/kg RL        | mg/kg RL         | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |            | <49.9 49.9      | <49.8 49.8       | <250 250        | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       |
| Diesel Range Organics (DRO)        |            | 485 49.9        | <49.8 49.8       | 2860 250        | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |            | 64.3 49.9       | <49.8 49.8       | 365 250         | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       |
| Total TPH                          |            | 549 49.9        | <49.8 49.8       | 3230 250        | <50.0 50.0       | <50.0 50.0       | <49.9 49.9       |

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Holly Taylor  
Project Manager





# Certificate of Analysis Summary 650797

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 10-FEB-20  
 Project Manager: Holly Taylor

| <i>Analysis Requested</i>             | <i>Lab Id:</i>    | 650797-103      | 650797-104       | 650797-105       |  |  |  |
|---------------------------------------|-------------------|-----------------|------------------|------------------|--|--|--|
|                                       | <i>Field Id:</i>  | S-34 (1')       | S-34 (3')        | S-34 (5')        |  |  |  |
|                                       | <i>Depth:</i>     |                 |                  |                  |  |  |  |
|                                       | <i>Matrix:</i>    | SOIL            | SOIL             | SOIL             |  |  |  |
|                                       | <i>Sampled:</i>   | Jan-28-20 00:00 | Jan-28-20 00:00  | Jan-28-20 00:00  |  |  |  |
| <b>BTEX by EPA 8021B<br/>NO_CERT#</b> | <i>Extracted:</i> | Feb-06-20 09:00 | Feb-06-20 09:00  | Feb-06-20 09:00  |  |  |  |
|                                       | <i>Analyzed:</i>  | Feb-06-20 17:25 | Feb-06-20 14:44  | Feb-06-20 15:04  |  |  |  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |  |  |
| Benzene                               |                   | <0.0200 0.0200  | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| Toluene                               |                   | 0.122 0.0200    | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| Ethylbenzene                          |                   | 0.0342 0.0200   | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| m,p-Xylenes                           |                   | 0.105 0.0399    | <0.00398 0.00398 | <0.00400 0.00400 |  |  |  |
| o-Xylene                              |                   | 0.265 0.0200    | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| Total Xylenes                         |                   | 0.370 0.0200    | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| Total BTEX                            |                   | 0.526 0.0200    | <0.00199 0.00199 | <0.00200 0.00200 |  |  |  |
| <b>Chloride by EPA 300</b>            | <i>Extracted:</i> | Feb-02-20 12:30 | Feb-02-20 12:30  | Feb-02-20 12:30  |  |  |  |
|                                       | <i>Analyzed:</i>  | Feb-02-20 13:47 | Feb-02-20 13:54  | Feb-02-20 14:00  |  |  |  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |  |  |
| Chloride                              |                   | 239 4.98        | 12.0 5.05        | <5.03 5.03       |  |  |  |
| <b>TPH by SW8015 Mod</b>              | <i>Extracted:</i> | Jan-31-20 13:00 | Jan-31-20 13:00  | Jan-31-20 13:00  |  |  |  |
|                                       | <i>Analyzed:</i>  | Feb-01-20 01:22 | Feb-01-20 01:41  | Feb-01-20 02:00  |  |  |  |
|                                       | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |  |  |
| Gasoline Range Hydrocarbons (GRO)     |                   | <250 250        | <50.0 50.0       | <49.9 49.9       |  |  |  |
| Diesel Range Organics (DRO)           |                   | 2700 250        | <50.0 50.0       | <49.9 49.9       |  |  |  |
| Motor Oil Range Hydrocarbons (MRO)    |                   | 358 250         | <50.0 50.0       | <49.9 49.9       |  |  |  |
| Total TPH                             |                   | 3060 250        | <50.0 50.0       | <49.9 49.9       |  |  |  |

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

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

Holly Taylor  
Project Manager

# Analytical Report 650797

for  
**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Blineberry Sat.1**

**19-0180.08**

**10-FEB-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)



10-FEB-20

Project Manager: **Mark Larson**

**Larson and Associates, Inc.**

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **650797**

**Blineberry Sat.1**

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) 650797. 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. 650797 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

---

**Holly Taylor**

Project Manager

***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 650797

Larson and Associates, Inc., Midland, TX

Blineberry Sat.1

| Sample Id  | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| S-3 (1')   | S      | 01-22-20 12:30 |              | 650797-001    |
| S-3 (3')   | S      | 01-22-20 12:31 |              | 650797-002    |
| S-3 (5')   | S      | 01-22-20 12:55 |              | 650797-003    |
| S-3 (10')  | S      | 01-22-20 12:56 |              | 650797-004    |
| S-6 (1')   | S      | 01-22-20 13:07 |              | 650797-005    |
| S-6 (3')   | S      | 01-22-20 13:08 |              | 650797-006    |
| S-6 (5')   | S      | 01-22-20 13:30 |              | 650797-007    |
| S-6 (10')  | S      | 01-22-20 13:31 |              | 650797-008    |
| S-8 (1')   | S      | 01-23-20 09:55 |              | 650797-009    |
| S-8 (3')   | S      | 01-23-20 09:56 |              | 650797-010    |
| S-8 (5')   | S      | 01-23-20 10:04 |              | 650797-011    |
| S-8 (10')  | S      | 01-23-20 10:05 |              | 650797-012    |
| S-9 (1')   | S      | 01-23-20 10:47 |              | 650797-013    |
| S-9 (3')   | S      | 01-23-20 10:48 |              | 650797-014    |
| S-9 (5')   | S      | 01-23-20 10:53 |              | 650797-015    |
| S-9 (10')  | S      | 01-23-20 10:54 |              | 650797-016    |
| S-10 (1')  | S      | 01-23-20 11:11 |              | 650797-017    |
| S-10 (3')  | S      | 01-23-20 11:12 |              | 650797-018    |
| S-10 (5')  | S      | 01-23-20 11:15 |              | 650797-019    |
| S-10 (10') | S      | 01-23-20 11:16 |              | 650797-020    |
| S-11 (1')  | S      | 01-23-20 11:32 |              | 650797-021    |
| S-11 (3')  | S      | 01-23-20 11:33 |              | 650797-022    |
| S-11 (5')  | S      | 01-23-20 11:39 |              | 650797-023    |
| S-11 (10') | S      | 01-23-20 11:40 |              | 650797-024    |
| S-12 (1')  | S      | 01-23-20 12:30 |              | 650797-025    |
| S-12 (3')  | S      | 01-23-20 12:03 |              | 650797-026    |
| S-12 (5')  | S      | 01-23-20 12:04 |              | 650797-027    |
| S-12 (10') | S      | 01-23-20 12:10 |              | 650797-028    |
| S-13 (1')  | S      | 01-23-20 12:21 |              | 650797-029    |
| S-13 (3')  | S      | 01-23-20 12:38 |              | 650797-030    |
| S-13 (5')  | S      | 01-23-20 12:39 |              | 650797-031    |
| S-13 (10') | S      | 01-23-20 12:46 |              | 650797-032    |
| S-14 (1')  | S      | 01-23-20 12:47 |              | 650797-033    |
| S-14 (3')  | S      | 01-23-20 13:06 |              | 650797-034    |
| S-14 (5')  | S      | 01-23-20 13:07 |              | 650797-035    |
| S-14 (10') | S      | 01-23-20 13:16 |              | 650797-036    |
| S-15 (1')  | S      | 01-23-20 13:17 |              | 650797-037    |
| S-15 (3')  | S      | 01-23-20 13:39 |              | 650797-038    |
| S-15 (5')  | S      | 01-23-20 13:40 |              | 650797-039    |
| S-15 (10') | S      | 01-23-20 13:56 |              | 650797-040    |
| S-16(1')   | S      | 01-23-20 13:57 |              | 650797-041    |
| S-16 (3')  | S      | 01-24-20 11:05 |              | 650797-042    |
| S-16 (5')  | S      | 01-24-20 11:06 |              | 650797-043    |



## Sample Cross Reference 650797

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

## Blineberry Sat.1

|            |   |                |            |
|------------|---|----------------|------------|
| S-16 (10') | S | 01-24-20 11:10 | 650797-044 |
| S-17 (1')  | S | 01-24-20 11:11 | 650797-045 |
| S-17 (3')  | S | 01-24-20 11:32 | 650797-046 |
| S-17 (5')  | S | 01-24-20 11:33 | 650797-047 |
| S-17 (7')  | S | 01-24-20 11:38 | 650797-048 |
| S-19 (1')  | S | 01-24-20 11:39 | 650797-049 |
| S-19 (3')  | S | 01-24-20 12:32 | 650797-050 |
| S-19 (5')  | S | 01-24-20 12:33 | 650797-051 |
| S-19 (10') | S | 01-24-20 12:37 | 650797-052 |
| S-20 (1')  | S | 01-24-20 12:38 | 650797-053 |
| S-20 (3')  | S | 01-24-20 12:53 | 650797-054 |
| S-20 (5')  | S | 01-24-20 12:54 | 650797-055 |
| S-20 (7')  | S | 01-24-20 12:58 | 650797-056 |
| S-21 (1')  | S | 01-24-20 12:59 | 650797-057 |
| S-21 (3')  | S | 01-24-20 13:15 | 650797-058 |
| S-21 (5')  | S | 01-24-20 13:16 | 650797-059 |
| S-22 (1')  | S | 01-24-20 13:17 | 650797-060 |
| S-22 (3')  | S | 01-24-20 13:24 | 650797-061 |
| S-22 (5')  | S | 01-24-20 13:25 | 650797-062 |
| S-22 (10') | S | 01-24-20 13:46 | 650797-063 |
| S-23 (1')  | S | 01-27-20 12:45 | 650797-064 |
| S-23 (3')  | S | 01-27-20 12:46 | 650797-065 |
| S-23 (5')  | S | 01-27-20 12:55 | 650797-066 |
| S-23 (10') | S | 01-27-20 12:56 | 650797-067 |
| S-25 (1')  | S | 01-27-20 13:07 | 650797-068 |
| S-25 (3')  | S | 01-27-20 13:08 | 650797-069 |
| S-25 (5')  | S | 01-27-20 13:13 | 650797-070 |
| S-25 (10') | S | 01-27-20 13:14 | 650797-071 |
| S-26 (1')  | S | 01-27-20 13:25 | 650797-072 |
| S-26 (3')  | S | 01-27-20 13:26 | 650797-073 |
| S-26 (5')  | S | 01-27-20 13:32 | 650797-074 |
| S-26 (10') | S | 01-27-20 13:33 | 650797-075 |
| S-27 (1')  | S | 01-27-20 13:45 | 650797-076 |
| S-27 (3')  | S | 01-27-20 13:46 | 650797-077 |
| S-27 (5')  | S | 01-27-20 13:55 | 650797-078 |
| S-27 (10') | S | 01-27-20 13:56 | 650797-079 |
| S-28 (1')  | S | 01-27-20 14:07 | 650797-080 |
| S-28 (3')  | S | 01-27-20 14:08 | 650797-081 |
| S-28 (5')  | S | 01-27-20 14:15 | 650797-082 |
| S-28 (10') | S | 01-27-20 14:16 | 650797-083 |
| S-2 (1')   | S | 01-28-20 09:51 | 650797-084 |
| S-2 (3')   | S | 01-28-20 09:52 | 650797-085 |
| S-2 (5')   | S | 01-28-20 10:15 | 650797-086 |
| S-2 (10')  | S | 01-24-20 10:16 | 650797-087 |



## Sample Cross Reference 650797

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

## Blineberry Sat.1

|            |   |                |            |
|------------|---|----------------|------------|
| S-4 (1')   | S | 01-28-20 10:20 | 650797-088 |
| S-4 (3')   | S | 01-28-20 10:21 | 650797-089 |
| S-4 (5')   | S | 01-28-20 10:30 | 650797-090 |
| S-4 (10')  | S | 01-28-20 10:31 | 650797-091 |
| S-31 (1')  | S | 01-28-20 00:00 | 650797-092 |
| S-31 (3')  | S | 01-28-20 00:00 | 650797-093 |
| S-31 (5')  | S | 01-28-20 00:00 | 650797-094 |
| S-31 (10') | S | 01-28-20 00:00 | 650797-095 |
| S-32 (1')  | S | 01-28-20 00:00 | 650797-096 |
| S-32 (3')  | S | 01-28-20 00:00 | 650797-097 |
| S-32 (5')  | S | 01-28-20 00:00 | 650797-098 |
| S-33 (1')  | S | 01-28-20 00:00 | 650797-099 |
| S-33 (3')  | S | 01-28-20 00:00 | 650797-100 |
| S-33 (5')  | S | 01-28-20 00:00 | 650797-101 |
| S-33 (10') | S | 01-28-20 00:00 | 650797-102 |
| S-34 (1')  | S | 01-28-20 00:00 | 650797-103 |
| S-34 (3')  | S | 01-28-20 00:00 | 650797-104 |
| S-34 (5')  | S | 01-28-20 00:00 | 650797-105 |

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat.1**Project ID: 19-0180.08  
Work Order Number(s): 650797Report Date: 10-FEB-20  
Date Received: 01/30/2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

**Analytical non conformances and comments:**

Batch: LBA-3115061 Chloride by EPA 300

Lab Sample ID 650914-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650797-024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039.

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

Batch: LBA-3115062 Chloride by EPA 300

Lab Sample ID 650797-015 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650797-004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023.

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

Batch: LBA-3115214 Chloride by EPA 300

Lab Sample ID 650797-090 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650797-080, -081, -082, -083, -084, -085, -086, -087, -088, -089, -090, -091.

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

Batch: LBA-3115239 BTEX by EPA 8021B

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

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat.1**Project ID: 19-0180.08  
Work Order Number(s): 650797Report Date: 10-FEB-20  
Date Received: 01/30/2020

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Batch: LBA-3115240 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650797-057.

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

Batch: LBA-3115243 BTEX by EPA 8021B

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

Batch: LBA-3115326 BTEX by EPA 8021B

Lab Sample ID 650797-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650797-001, -002, -003, -004, -006, -007, -008, -010, -011, -012, -015, -016, -018, -019, -020, -022, -023, -024, -026, -027.

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

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650797-001 S, 650797-001 SD, 650797-001, 650797-006.

Surrogate a,a,a-Trifluorotoluene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650797-006, 650797-004, 650797-003, 650797-008, 650797-002.



**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blineberry Sat.1**Project ID: 19-0180.08  
Work Order Number(s): 650797Report Date: 10-FEB-20  
Date Received: 01/30/2020

Batch: LBA-3115331 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650797-021 S, 650797-021 SD, 650797-009, 650797-005, 650797-021, 650797-013, 650797-037, 650797-017, 650797-029, 650797-033.

Surrogate a,a,a-Trifluorotoluene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650797-032, 650797-039.

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

Lab Sample ID 650797-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Ethylbenzene recovered below QC limits in the Matrix Spike. Benzene, 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: 650797-005, -009, -013, -017, -021, -025, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

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

Batch: LBA-3115478 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 651065-003 S, 651065-003 SD, 650797-014.

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

Batch: LBA-3115685 BTEX by EPA 8021B

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

Samples affected are: 650797-063.

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

Batch: LBA-3115856 BTEX by EPA 8021B

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

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

Samples affected are: 650797-102.



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (1')  
Lab Sample Id: 650797-001

Matrix: Soil  
Date Collected: 01.22.20 12.30

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5500   | 49.8 | mg/kg | 01.31.20 01.01 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4140   | 250 | mg/kg | 01.31.20 13.33 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 15900  | 250 | mg/kg | 01.31.20 13.33 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1680   | 250 | mg/kg | 01.31.20 13.33 |      | 5   |
| Total TPH                          | PHC635     | 21700  | 250 | mg/kg | 01.31.20 13.33 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 118        | %     | 70-135 | 01.31.20 13.33 |      |
| o-Terphenyl    | 84-15-1    | 108        | %     | 70-135 | 01.31.20 13.33 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (1')  
Lab Sample Id: 650797-001

Matrix: Soil  
Date Collected: 01.22.20 12.30

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>1.60</b>       | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>Toluene</b>         | 108-88-3          | <b>24.5</b>       | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>13.6</b>       | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>69.0</b>       | 0.400        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>o-Xylene</b>        | 95-47-6           | <b>28.4</b>       | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>97.4</b>       | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <b>Total BTEX</b>      |                   | <b>137</b>        | 0.200        | mg/kg         | 02.01.20 09.44       |             | 10  |
| <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          | 197               | %            | 68-120        | 02.01.20 09.44       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 97                | %            | 71-121        | 02.01.20 09.44       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (3')  
Lab Sample Id: 650797-002

Matrix: Soil  
Date Collected: 01.22.20 12.31

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6920   | 49.9 | mg/kg | 01.31.20 01.07 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 12.30 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 75.8   | 50.0 | mg/kg | 01.31.20 12.30 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 12.30 | U    | 1   |
| Total TPH                          | PHC635     | 75.8   | 50.0 | mg/kg | 01.31.20 12.30 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 01.31.20 12.30 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 01.31.20 12.30 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-3 (3')  
Lab Sample Id: 650797-002

Matrix: Soil  
Date Collected: 01.22.20 12.31

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0401           | 0.0401       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 00.55       | 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          | 93                | %            | 68-120        | 02.01.20 00.55       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 122               | %            | 71-121        | 02.01.20 00.55       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (5')  
Lab Sample Id: 650797-003

Matrix: Soil  
Date Collected: 01.22.20 12.55

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 141    | 5.04 | mg/kg | 01.31.20 01.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 13.54 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 173    | 49.9 | mg/kg | 01.31.20 13.54 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 58.5   | 49.9 | mg/kg | 01.31.20 13.54 |      | 1   |
| Total TPH                          | PHC635     | 232    | 49.9 | mg/kg | 01.31.20 13.54 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 01.31.20 13.54 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 01.31.20 13.54 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (5')  
Lab Sample Id: 650797-003

Matrix: Soil  
Date Collected: 01.22.20 12.55

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 01.18       | 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                | %            | 68-120        | 02.01.20 01.18       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 123               | %            | 71-121        | 02.01.20 01.18       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (10')  
Lab Sample Id: 650797-004

Matrix: Soil  
Date Collected: 01.22.20 12.56

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 91.8   | 4.95 | mg/kg | 01.30.20 17.59 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 14.15       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 14.15       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 14.15       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 14.15       | 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          | 87                | %            | 70-135        | 01.31.20 14.15       |             |     |
| o-Terphenyl                        | 84-15-1           | 89                | %            | 70-135        | 01.31.20 14.15       |             |     |





## Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-3 (10')  
Lab Sample Id: 650797-004

Matrix: Soil  
Date Collected: 01.22.20 12.56

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| Toluene                | 108-88-3          | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0402           | 0.0402       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | U           | 1   |
| Total BTEX             |                   | <0.0201           | 0.0201       | mg/kg         | 02.01.20 01.43       | 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          | 98                | %            | 68-120        | 02.01.20 01.43       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 123               | %            | 71-121        | 02.01.20 01.43       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (1')  
Lab Sample Id: 650797-005

Matrix: Soil  
Date Collected: 01.22.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3330   | 25.1 | mg/kg | 01.30.20 18.19 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 4110       | 249   | mg/kg  | 01.31.20 14.36 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 12500      | 249   | mg/kg  | 01.31.20 14.36 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1280       | 249   | mg/kg  | 01.31.20 14.36 |      | 5   |
| Total TPH                          | PHC635     | 17900      | 249   | mg/kg  | 01.31.20 14.36 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 117        | %     | 70-135 | 01.31.20 14.36 |      |     |
| o-Terphenyl                        | 84-15-1    | 113        | %     | 70-135 | 01.31.20 14.36 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (1')  
Lab Sample Id: 650797-005

Matrix: Soil  
Date Collected: 01.22.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>1.13</b>       | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>21.5</b>       | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>18.5</b>       | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>48.4</b>       | 0.202        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>20.3</b>       | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>68.7</b>       | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>110</b>        | 0.101        | mg/kg         | 02.01.20 22.14       |             | 5   |
| <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          | 144               | %            | 68-120        | 02.01.20 22.14       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 97                | %            | 71-121        | 02.01.20 22.14       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (3')  
Lab Sample Id: 650797-006

Matrix: Soil  
Date Collected: 01.22.20 13.08

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 404    | 4.99 | mg/kg | 01.30.20 18.25 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 95.0   | 50.0 | mg/kg | 01.31.20 14.57 |      | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 437    | 50.0 | mg/kg | 01.31.20 14.57 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 57.3   | 50.0 | mg/kg | 01.31.20 14.57 |      | 1   |
| Total TPH                          | PHC635     | 589    | 50.0 | mg/kg | 01.31.20 14.57 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 01.31.20 14.57 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 01.31.20 14.57 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (3')  
Lab Sample Id: 650797-006

Matrix: Soil  
Date Collected: 01.22.20 13.08

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 02.07       | U           | 1   |
| <b>Toluene</b>         | 108-88-3          | <b>0.361</b>      | 0.0198       | mg/kg         | 02.01.20 02.07       |             | 1   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>0.817</b>      | 0.0198       | mg/kg         | 02.01.20 02.07       |             | 1   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>1.52</b>       | 0.0397       | mg/kg         | 02.01.20 02.07       |             | 1   |
| <b>o-Xylene</b>        | 95-47-6           | <b>0.681</b>      | 0.0198       | mg/kg         | 02.01.20 02.07       |             | 1   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>2.20</b>       | 0.0198       | mg/kg         | 02.01.20 02.07       |             | 1   |
| <b>Total BTEX</b>      |                   | <b>3.38</b>       | 0.0198       | mg/kg         | 02.01.20 02.07       |             | 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          | 147               | %            | 68-120        | 02.01.20 02.07       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 122               | %            | 71-121        | 02.01.20 02.07       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (5')  
Lab Sample Id: 650797-007

Matrix: Soil  
Date Collected: 01.22.20 13.30

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 48.3   | 4.95 | mg/kg | 01.30.20 18.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 01.31.20 15.18 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 01.31.20 15.18 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 01.31.20 15.18 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 01.31.20 15.18 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 01.31.20 15.18 |      |
| o-Terphenyl    | 84-15-1    | 82         | %     | 70-135 | 01.31.20 15.18 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-6 (5')  
Lab Sample Id: 650797-007

Matrix: Soil  
Date Collected: 01.22.20 13.30

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|------------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene                | 71-43-2     | <0.0200    | 0.0200 | mg/kg | 02.01.20 02.31 | U              | 1    |
| Toluene                | 108-88-3    | <0.0200    | 0.0200 | mg/kg | 02.01.20 02.31 | U              | 1    |
| Ethylbenzene           | 100-41-4    | 0.0340     | 0.0200 | mg/kg | 02.01.20 02.31 |                | 1    |
| m,p-Xylenes            | 179601-23-1 | 0.0620     | 0.0400 | mg/kg | 02.01.20 02.31 |                | 1    |
| o-Xylene               | 95-47-6     | 0.0220     | 0.0200 | mg/kg | 02.01.20 02.31 |                | 1    |
| Total Xylenes          | 1330-20-7   | 0.0840     | 0.0200 | mg/kg | 02.01.20 02.31 |                | 1    |
| Total BTEX             |             | 0.118      | 0.0200 | mg/kg | 02.01.20 02.31 |                | 1    |
| Surrogate              | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene   | 460-00-4    | 103        |        | %     | 68-120         | 02.01.20 02.31 |      |
| a,a,a-Trifluorotoluene | 98-08-8     | 117        |        | %     | 71-121         | 02.01.20 02.31 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-6 (10')**  
Lab Sample Id: 650797-008

Matrix: Soil  
Date Collected: 01.22.20 13.31

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 76.8   | 4.95 | mg/kg | 01.30.20 18.38 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 15.39 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 15.39 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 15.39 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 15.39 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 01.31.20 15.39 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 01.31.20 15.39 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-6 (10')  
Lab Sample Id: 650797-008

Matrix: Soil  
Date Collected: 01.22.20 13.31

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 02.55       | 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          | 104               | %            | 68-120        | 02.01.20 02.55       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 123               | %            | 71-121        | 02.01.20 02.55       | **          |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-8 (1')  
Lab Sample Id: 650797-009

Matrix: Soil  
Date Collected: 01.23.20 09.55

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5960   | 30.5 | mg/kg | 01.30.20 18.58 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2910   | 250 | mg/kg | 01.31.20 16.00 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 14500  | 250 | mg/kg | 01.31.20 16.00 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1560   | 250 | mg/kg | 01.31.20 16.00 |      | 5   |
| Total TPH                          | PHC635     | 19000  | 250 | mg/kg | 01.31.20 16.00 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 01.31.20 16.00 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 01.31.20 16.00 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-8 (1')  
Lab Sample Id: 650797-009

Matrix: Soil  
Date Collected: 01.23.20 09.55

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>1.56</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>Toluene</b>         | 108-88-3          | <b>18.4</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>16.4</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>33.6</b>       | 0.399        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>o-Xylene</b>        | 95-47-6           | <b>14.5</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>48.1</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <b>Total BTEX</b>      |                   | <b>84.5</b>       | 0.200        | mg/kg         | 02.01.20 22.39       |             | 10  |
| <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          | 124               | %            | 68-120        | 02.01.20 22.39       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 84                | %            | 71-121        | 02.01.20 22.39       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-8 (3')  
Lab Sample Id: 650797-010

Matrix: Soil  
Date Collected: 01.23.20 09.56

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 793    | 5.01 | mg/kg | 01.30.20 19.05 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 16.20 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 16.20 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 16.20 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 16.20 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 83         | %     | 70-135 | 01.31.20 16.20 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 01.31.20 16.20 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-8 (3')  
Lab Sample Id: 650797-010

Matrix: Soil  
Date Collected: 01.23.20 09.56

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0396           | 0.0396       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 03.19       | 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          | 87                | %            | 68-120        | 02.01.20 03.19       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 103               | %            | 71-121        | 02.01.20 03.19       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-8 (5')  
Lab Sample Id: 650797-011

Matrix: Soil  
Date Collected: 01.23.20 10.04

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 31.2   | 5.05 | mg/kg | 01.30.20 19.12 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 17.02 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 17.02 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 17.02 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 17.02 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 01.31.20 17.02 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 01.31.20 17.02 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-8 (5')  
 Lab Sample Id: 650797-011

Matrix: Soil  
 Date Collected: 01.23.20 10.04

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3115326

Prep Method: SW5030B

% Moisture:

Date Prep: 01.31.20 12.45

Basis: Wet Weight

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 03.43       | U           | 1   |
| <b>Toluene</b>         | 108-88-3          | <b>0.0360</b>     | 0.0200       | mg/kg         | 02.01.20 03.43       |             | 1   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>0.0220</b>     | 0.0200       | mg/kg         | 02.01.20 03.43       |             | 1   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>0.0400</b>     | 0.0400       | mg/kg         | 02.01.20 03.43       |             | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 03.43       | U           | 1   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>0.0400</b>     | 0.0200       | mg/kg         | 02.01.20 03.43       |             | 1   |
| <b>Total BTEX</b>      |                   | <b>0.0980</b>     | 0.0200       | mg/kg         | 02.01.20 03.43       |             | 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          | 77                | %            | 68-120        | 02.01.20 03.43       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 91                | %            | 71-121        | 02.01.20 03.43       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-8 (10')**  
Lab Sample Id: 650797-012

Matrix: Soil  
Date Collected: 01.23.20 10.05

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 113    | 4.99 | mg/kg | 01.30.20 19.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 17.24 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 17.24 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 17.24 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 17.24 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 01.31.20 17.24 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 01.31.20 17.24 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-8 (10')  
Lab Sample Id: 650797-012

Matrix: Soil  
Date Collected: 01.23.20 10.05

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 04.07       | 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          | 93                | %            | 68-120        | 02.01.20 04.07       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 116               | %            | 71-121        | 02.01.20 04.07       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-9 (1')  
Lab Sample Id: 650797-013

Matrix: Soil  
Date Collected: 01.23.20 10.47

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 7570   | 50.3 | mg/kg | 01.30.20 19.25 |      | 10  |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3720       | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 8940       | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 854        | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Total TPH                          | PHC635     | 13500      | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 114        | %     | 70-135 | 01.31.20 17.45 |      |     |
| o-Terphenyl                        | 84-15-1    | 99         | %     | 70-135 | 01.31.20 17.45 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-9 (1')**  
Lab Sample Id: 650797-013

Matrix: Soil  
Date Collected: 01.23.20 10.47

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>1.30</b>       | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>14.9</b>       | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>8.39</b>       | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>64.9</b>       | 0.202        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>26.8</b>       | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>91.7</b>       | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>116</b>        | 0.101        | mg/kg         | 02.01.20 23.03       |             | 5   |
| <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          | 207               | %            | 68-120        | 02.01.20 23.03       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 102               | %            | 71-121        | 02.01.20 23.03       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-9 (3')  
Lab Sample Id: 650797-014

Matrix: Soil  
Date Collected: 01.23.20 10.48

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115062

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 01.30.20 15.50

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1520   | 25.1 | mg/kg | 01.30.20 19.52 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115319

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 01.31.20 09.00

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3950       | 250   | mg/kg  | 01.31.20 18.05 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 6710       | 250   | mg/kg  | 01.31.20 18.05 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 608        | 250   | mg/kg  | 01.31.20 18.05 |      | 5   |
| Total TPH                          | PHC635     | 11300      | 250   | mg/kg  | 01.31.20 18.05 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 116        | %     | 70-135 | 01.31.20 18.05 |      |     |
| o-Terphenyl                        | 84-15-1    | 104        | %     | 70-135 | 01.31.20 18.05 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-9 (3')  
Lab Sample Id: 650797-014

Matrix: Soil  
Date Collected: 01.23.20 10.48

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 02.03.20 12.00

Basis: Wet Weight

Seq Number: 3115478

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>4.81</b>       | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>Toluene</b>         | 108-88-3          | <b>64.6</b>       | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>52.2</b>       | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>80.8</b>       | 0.402        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>o-Xylene</b>        | 95-47-6           | <b>32.9</b>       | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>114</b>        | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <b>Total BTEX</b>      |                   | <b>235</b>        | 0.201        | mg/kg         | 02.03.20 22.50       |             | 10  |
| <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          | 258               | %            | 68-120        | 02.03.20 22.50       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 112               | %            | 71-121        | 02.03.20 22.50       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-9 (5')  
Lab Sample Id: 650797-015

Matrix: Soil  
Date Collected: 01.23.20 10.53

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 26.8   | 4.96 | mg/kg | 01.30.20 19.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 18.26 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 01.31.20 18.26 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 01.31.20 18.26 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-9 (5')  
Lab Sample Id: 650797-015

Matrix: Soil  
Date Collected: 01.23.20 10.53

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| Toluene                | 108-88-3          | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0403           | 0.0403       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | U           | 1   |
| Total BTEX             |                   | <0.0202           | 0.0202       | mg/kg         | 02.01.20 04.31       | 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          | 74                | %            | 68-120        | 02.01.20 04.31       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 90                | %            | 71-121        | 02.01.20 04.31       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-9 (10')**  
Lab Sample Id: 650797-016

Matrix: Soil  
Date Collected: 01.23.20 10.54

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 38.6   | 25.0 | mg/kg | 01.30.20 19.58 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 18.47 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 18.47 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 18.47 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 18.47 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 01.31.20 18.47 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 01.31.20 18.47 |      |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-9 (10')**  
Lab Sample Id: 650797-016

Matrix: Soil  
Date Collected: 01.23.20 10.54

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0397           | 0.0397       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.07       | 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                | %            | 68-120        | 02.01.20 06.07       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 102               | %            | 71-121        | 02.01.20 06.07       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-10 (1')**  
Lab Sample Id: 650797-017

Matrix: Soil  
Date Collected: 01.23.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2810   | 24.9 | mg/kg | 01.30.20 20.18 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1720       | 250   | mg/kg  | 01.31.20 19.08 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 6260       | 250   | mg/kg  | 01.31.20 19.08 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 634        | 250   | mg/kg  | 01.31.20 19.08 |      | 5   |
| Total TPH                          | PHC635     | 8610       | 250   | mg/kg  | 01.31.20 19.08 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 95         | %     | 70-135 | 01.31.20 19.08 |      |     |
| o-Terphenyl                        | 84-15-1    | 99         | %     | 70-135 | 01.31.20 19.08 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-10 (1')**  
Lab Sample Id: 650797-017

Matrix: Soil  
Date Collected: 01.23.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>0.743</b>      | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>12.6</b>       | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>14.3</b>       | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>31.2</b>       | 0.201        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>13.8</b>       | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>45.0</b>       | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>72.6</b>       | 0.100        | mg/kg         | 02.01.20 23.51       |             | 5   |
| <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          | 142               | %            | 68-120        | 02.01.20 23.51       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 94                | %            | 71-121        | 02.01.20 23.51       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-10 (3')  
Lab Sample Id: 650797-018

Matrix: Soil  
Date Collected: 01.23.20 11.12

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 13.3   | 4.96 | mg/kg | 01.30.20 20.25 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 19.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 01.31.20 19.29 |      |
| o-Terphenyl    | 84-15-1    | 85         | %     | 70-135 | 01.31.20 19.29 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-10 (3')  
Lab Sample Id: 650797-018

Matrix: Soil  
Date Collected: 01.23.20 11.12

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 06.31       | U           | 1   |
| <b>Toluene</b>         | 108-88-3          | <b>0.0359</b>     | 0.0200       | mg/kg         | 02.01.20 06.31       |             | 1   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>0.0220</b>     | 0.0200       | mg/kg         | 02.01.20 06.31       |             | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0399           | 0.0399       | mg/kg         | 02.01.20 06.31       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 06.31       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 06.31       | U           | 1   |
| <b>Total BTEX</b>      |                   | <b>0.0579</b>     | 0.0200       | mg/kg         | 02.01.20 06.31       |             | 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          | 80                | %            | 68-120        | 02.01.20 06.31       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 98                | %            | 71-121        | 02.01.20 06.31       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-10 (5')  
Lab Sample Id: 650797-019

Matrix: Soil  
Date Collected: 01.23.20 11.15

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.0   | 5.04 | mg/kg | 01.30.20 20.31 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | 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> |     |
| 1-Chlorooctane                     | 111-85-3          | 100               | %            | 70-135        | 01.31.20 19.50       |             |     |
| o-Terphenyl                        | 84-15-1           | 99                | %            | 70-135        | 01.31.20 19.50       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-10 (5')  
Lab Sample Id: 650797-019

Matrix: Soil  
Date Collected: 01.23.20 11.15

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0397           | 0.0397       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 06.55       | 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          | 89                | %            | 68-120        | 02.01.20 06.55       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 104               | %            | 71-121        | 02.01.20 06.55       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-10 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-020

Date Collected: 01.23.20 11.16

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 26.8   | 4.95 | mg/kg | 01.30.20 20.38 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115319

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 20.11 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 20.11 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 20.11 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 20.11 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 01.31.20 20.11 |      |
| o-Terphenyl    | 84-15-1    | 88         | %     | 70-135 | 01.31.20 20.11 |      |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

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

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-020

Date Collected: 01.23.20 11.16

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0399           | 0.0399       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.19       | 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          | 84                | %            | 68-120        | 02.01.20 07.19       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 104               | %            | 71-121        | 02.01.20 07.19       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (1')  
Lab Sample Id: 650797-021

Matrix: Soil  
Date Collected: 01.23.20 11.32

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 380    | 4.95 | mg/kg | 01.30.20 20.45 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 7650       | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 22100      | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1890       | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Total TPH                          | PHC635     | 31600      | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 119        | %     | 70-135 | 01.31.20 22.58 |      |     |
| o-Terphenyl                        | 84-15-1    | 97         | %     | 70-135 | 01.31.20 22.58 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (1')  
Lab Sample Id: 650797-021

Matrix: Soil  
Date Collected: 01.23.20 11.32

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>8.81</b>       | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>Toluene</b>         | 108-88-3          | <b>77.0</b>       | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>79.1</b>       | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>132</b>        | 0.397        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>o-Xylene</b>        | 95-47-6           | <b>53.4</b>       | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>185</b>        | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <b>Total BTEX</b>      |                   | <b>350</b>        | 0.198        | mg/kg         | 02.01.20 20.37       |             | 10  |
| <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          | 287               | %            | 68-120        | 02.01.20 20.37       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 84                | %            | 71-121        | 02.01.20 20.37       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (3')  
Lab Sample Id: 650797-022

Matrix: Soil  
Date Collected: 01.23.20 11.33

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 25.2   | 5.01 | mg/kg | 01.30.20 20.51 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 01.31.20 21.56 |      |
| o-Terphenyl    | 84-15-1    | 96         | %     | 70-135 | 01.31.20 21.56 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (3')  
Lab Sample Id: 650797-022

Matrix: Soil  
Date Collected: 01.23.20 11.33

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0400           | 0.0400       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 07.43       | 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          | 81                | %            | 68-120        | 02.01.20 07.43       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 102               | %            | 71-121        | 02.01.20 07.43       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (5')  
Lab Sample Id: 650797-023

Matrix: Soil  
Date Collected: 01.23.20 11.39

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.50

Basis: Wet Weight

Seq Number: 3115062

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 01.30.20 20.58 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 01.31.20 23.19 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 01.31.20 23.19 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-11 (5')  
Lab Sample Id: 650797-023

Matrix: Soil  
Date Collected: 01.23.20 11.39

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0400           | 0.0400       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 08.07       | 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          | 85                | %            | 68-120        | 02.01.20 08.07       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 103               | %            | 71-121        | 02.01.20 08.07       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-024

Date Collected: 01.23.20 11.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6.11   | 4.96 | mg/kg | 01.30.20 22.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 23.40 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 23.40 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 23.40 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 23.40 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 01.31.20 23.40 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 01.31.20 23.40 |      |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-11 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-024

Date Collected: 01.23.20 11.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 08.31       | 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          | 85                | %            | 68-120        | 02.01.20 08.31       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 106               | %            | 71-121        | 02.01.20 08.31       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (1')  
Lab Sample Id: 650797-025

Matrix: Soil  
Date Collected: 01.23.20 12.30

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 80.6   | 5.00 | mg/kg | 01.30.20 22.38 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 922        | 250   | mg/kg  | 02.01.20 00.01 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 2250       | 250   | mg/kg  | 02.01.20 00.01 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 257        | 250   | mg/kg  | 02.01.20 00.01 |      | 5   |
| Total TPH                          | PHC635     | 3430       | 250   | mg/kg  | 02.01.20 00.01 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 99         | %     | 70-135 | 02.01.20 00.01 |      |     |
| o-Terphenyl                        | 84-15-1    | 96         | %     | 70-135 | 02.01.20 00.01 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (1')  
Lab Sample Id: 650797-025

Matrix: Soil  
Date Collected: 01.23.20 12.30

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>0.249</b>      | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>1.46</b>       | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>3.80</b>       | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>5.70</b>       | 0.199        | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>2.04</b>       | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>7.74</b>       | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>13.2</b>       | 0.0994       | mg/kg         | 02.02.20 00.15       |             | 5   |
| <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          | 116               | %            | 68-120        | 02.02.20 00.15       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 97                | %            | 71-121        | 02.02.20 00.15       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (3')  
Lab Sample Id: 650797-026

Matrix: Soil  
Date Collected: 01.23.20 12.03

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 01.30.20 22.44 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 02.01.20 00.22 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 02.01.20 00.22 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-12 (3')  
 Lab Sample Id: 650797-026

Matrix: Soil  
 Date Collected: 01.23.20 12.03

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0397           | 0.0397       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 08.56       | 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          | 85                | %            | 68-120        | 02.01.20 08.56       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 105               | %            | 71-121        | 02.01.20 08.56       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (5')  
Lab Sample Id: 650797-027

Matrix: Soil  
Date Collected: 01.23.20 12.04

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5.68   | 5.00 | mg/kg | 01.30.20 22.51 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 02.01.20 00.43       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 02.01.20 00.43       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 02.01.20 00.43       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 02.01.20 00.43       | 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-Chlorooctane                     | 111-85-3          | 92                | %            | 70-135        | 02.01.20 00.43       |             |     |
| o-Terphenyl                        | 84-15-1           | 88                | %            | 70-135        | 02.01.20 00.43       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (5')  
Lab Sample Id: 650797-027

Matrix: Soil  
Date Collected: 01.23.20 12.04

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115326

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0401           | 0.0401       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 09.20       | 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          | 85                | %            | 68-120        | 02.01.20 09.20       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 109               | %            | 71-121        | 02.01.20 09.20       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-12 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-028

Date Collected: 01.23.20 12.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 73.1   | 5.04 | mg/kg | 01.30.20 22.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 01.04 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 01.04 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 01.04 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 01.04 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 02.01.20 01.04 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 02.01.20 01.04 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-12 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-028

Date Collected: 01.23.20 12.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0400           | 0.0400       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 15.21       | 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          | 81                | %            | 68-120        | 02.01.20 15.21       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 98                | %            | 71-121        | 02.01.20 15.21       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (1')  
Lab Sample Id: 650797-029

Matrix: Soil  
Date Collected: 01.23.20 12.21

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115061

Prep Method: E300P

% Moisture:

Date Prep: 01.30.20 16.50

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 237    | 5.02 | mg/kg | 01.30.20 23.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115320

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 14.15

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 3670       | 249   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 18600      | 249   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2240       | 249   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Total TPH                          | PHC635     | 24500      | 249   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 111        | %     | 70-135 | 02.01.20 01.26 |      |     |
| o-Terphenyl                        | 84-15-1    | 102        | %     | 70-135 | 02.01.20 01.26 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (1')  
Lab Sample Id: 650797-029

Matrix: Soil  
Date Collected: 01.23.20 12.21

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>3.18</b>       | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>28.8</b>       | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>25.9</b>       | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>37.4</b>       | 0.201        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>21.3</b>       | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>58.7</b>       | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>117</b>        | 0.101        | mg/kg         | 02.02.20 00.39       |             | 5   |
| <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          | 284               | %            | 68-120        | 02.02.20 00.39       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 98                | %            | 71-121        | 02.02.20 00.39       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (3')  
Lab Sample Id: 650797-030

Matrix: Soil  
Date Collected: 01.23.20 12.38

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 8.47   | 5.00 | mg/kg | 01.30.20 23.11 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 01.47 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 109    | 50.0 | mg/kg | 02.01.20 01.47 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 01.47 | U    | 1   |
| Total TPH                          | PHC635     | 109    | 50.0 | mg/kg | 02.01.20 01.47 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 02.01.20 01.47 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 02.01.20 01.47 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (3')  
Lab Sample Id: 650797-030

Matrix: Soil  
Date Collected: 01.23.20 12.38

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|------------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene                | 71-43-2     | <0.0200    | 0.0200 | mg/kg | 02.01.20 15.46 | U              | 1    |
| Toluene                | 108-88-3    | <0.0200    | 0.0200 | mg/kg | 02.01.20 15.46 | U              | 1    |
| Ethylbenzene           | 100-41-4    | 0.0200     | 0.0200 | mg/kg | 02.01.20 15.46 |                | 1    |
| m,p-Xylenes            | 179601-23-1 | 0.0421     | 0.0401 | mg/kg | 02.01.20 15.46 |                | 1    |
| o-Xylene               | 95-47-6     | <0.0200    | 0.0200 | mg/kg | 02.01.20 15.46 | U              | 1    |
| Total Xylenes          | 1330-20-7   | 0.0421     | 0.0200 | mg/kg | 02.01.20 15.46 |                | 1    |
| Total BTEX             |             | 0.0621     | 0.0200 | mg/kg | 02.01.20 15.46 |                | 1    |
| Surrogate              | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene   | 460-00-4    | 88         |        | %     | 68-120         | 02.01.20 15.46 |      |
| a,a,a-Trifluorotoluene | 98-08-8     | 110        |        | %     | 71-121         | 02.01.20 15.46 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (5')  
Lab Sample Id: 650797-031

Matrix: Soil  
Date Collected: 01.23.20 12.39

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 7.85   | 4.99 | mg/kg | 01.30.20 23.31 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 02.01.20 02.30 |      |
| o-Terphenyl    | 84-15-1    | 88         | %     | 70-135 | 02.01.20 02.30 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (5')  
Lab Sample Id: 650797-031

Matrix: Soil  
Date Collected: 01.23.20 12.39

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0399           | 0.0399       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.10       | 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                | %            | 68-120        | 02.01.20 16.10       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 109               | %            | 71-121        | 02.01.20 16.10       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-13 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-032

Date Collected: 01.23.20 12.46

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 48.3   | 5.03 | mg/kg | 01.30.20 23.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 02.01.20 02.51       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 02.01.20 02.51       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 02.01.20 02.51       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 02.01.20 02.51       | 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          | 92                | %            | 70-135        | 02.01.20 02.51       |             |     |
| o-Terphenyl                        | 84-15-1           | 90                | %            | 70-135        | 02.01.20 02.51       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-13 (10')  
Lab Sample Id: 650797-032

Matrix: Soil  
Date Collected: 01.23.20 12.46

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0401           | 0.0401       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 16.35       | 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          | 108               | %            | 68-120        | 02.01.20 16.35       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 127               | %            | 71-121        | 02.01.20 16.35       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-14 (1')**  
Lab Sample Id: 650797-033

Matrix: Soil  
Date Collected: 01.23.20 12.47

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 566    | 4.98 | mg/kg | 01.30.20 23.57 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | 6200              | 249          | mg/kg         | 02.01.20 03.12       |             | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO         | 24100             | 249          | mg/kg         | 02.01.20 03.12       |             | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | 2470              | 249          | mg/kg         | 02.01.20 03.12       |             | 5   |
| Total TPH                          | PHC635            | 32800             | 249          | mg/kg         | 02.01.20 03.12       |             | 5   |
| <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          | 121               | %            | 70-135        | 02.01.20 03.12       |             |     |
| o-Terphenyl                        | 84-15-1           | 87                | %            | 70-135        | 02.01.20 03.12       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-14 (1')  
Lab Sample Id: 650797-033

Matrix: Soil  
Date Collected: 01.23.20 12.47

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number  | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------|-------------|------------|-------|--------|----------------|------|-----|
| Benzene                | 71-43-2     | 5.38       | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| Toluene                | 108-88-3    | 74.5       | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| Ethylbenzene           | 100-41-4    | 76.9       | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| m,p-Xylenes            | 179601-23-1 | 128        | 0.402 | mg/kg  | 02.02.20 01.03 |      | 10  |
| o-Xylene               | 95-47-6     | 53.9       | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| Total Xylenes          | 1330-20-7   | 182        | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| Total BTEX             |             | 339        | 0.201 | mg/kg  | 02.02.20 01.03 |      | 10  |
| Surrogate              | Cas Number  | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 4-Bromofluorobenzene   | 460-00-4    | 317        | %     | 68-120 | 02.02.20 01.03 | **   |     |
| a,a,a-Trifluorotoluene | 98-08-8     | 96         | %     | 71-121 | 02.02.20 01.03 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-14 (3')  
Lab Sample Id: 650797-034

Matrix: Soil  
Date Collected: 01.23.20 13.06

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 17.2   | 4.97 | mg/kg | 01.31.20 00.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 03.34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 120    | 50.0 | mg/kg | 02.01.20 03.34 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 03.34 | U    | 1   |
| Total TPH                          | PHC635     | 120    | 50.0 | mg/kg | 02.01.20 03.34 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 99         | %     | 70-135 | 02.01.20 03.34 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 02.01.20 03.34 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-14 (3')  
Lab Sample Id: 650797-034

Matrix: Soil  
Date Collected: 01.23.20 13.06

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number  | Result     | RL     | Units | Analysis Date  | Flag           | Dil  |
|------------------------|-------------|------------|--------|-------|----------------|----------------|------|
| Benzene                | 71-43-2     | <0.0199    | 0.0199 | mg/kg | 02.01.20 16.59 | U              | 1    |
| Toluene                | 108-88-3    | <0.0199    | 0.0199 | mg/kg | 02.01.20 16.59 | U              | 1    |
| Ethylbenzene           | 100-41-4    | 0.0299     | 0.0199 | mg/kg | 02.01.20 16.59 |                | 1    |
| m,p-Xylenes            | 179601-23-1 | 0.0677     | 0.0398 | mg/kg | 02.01.20 16.59 |                | 1    |
| o-Xylene               | 95-47-6     | 0.0378     | 0.0199 | mg/kg | 02.01.20 16.59 |                | 1    |
| Total Xylenes          | 1330-20-7   | 0.106      | 0.0199 | mg/kg | 02.01.20 16.59 |                | 1    |
| Total BTEX             |             | 0.135      | 0.0199 | mg/kg | 02.01.20 16.59 |                | 1    |
| Surrogate              | Cas Number  | % Recovery |        | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene   | 460-00-4    | 85         |        | %     | 68-120         | 02.01.20 16.59 |      |
| a,a,a-Trifluorotoluene | 98-08-8     | 108        |        | %     | 71-121         | 02.01.20 16.59 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-14 (5')  
Lab Sample Id: 650797-035

Matrix: Soil  
Date Collected: 01.23.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 12.9   | 5.03 | mg/kg | 01.31.20 00.11 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.01.20 03.55       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.01.20 03.55       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.01.20 03.55       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.01.20 03.55       | 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          | 103               | %            | 70-135        | 02.01.20 03.55       |             |     |
| o-Terphenyl                        | 84-15-1           | 100               | %            | 70-135        | 02.01.20 03.55       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-14 (5')  
Lab Sample Id: 650797-035

Matrix: Soil  
Date Collected: 01.23.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0396           | 0.0396       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 17.24       | 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          | 86                | %            | 68-120        | 02.01.20 17.24       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 105               | %            | 71-121        | 02.01.20 17.24       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-14 (10')  
Lab Sample Id: 650797-036

Matrix: Soil  
Date Collected: 01.23.20 13.16

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 53.2   | 4.95 | mg/kg | 01.31.20 00.17 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 02.01.20 04.16       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.8             | 49.8         | mg/kg         | 02.01.20 04.16       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 02.01.20 04.16       | U           | 1   |
| Total TPH                          | PHC635            | <49.8             | 49.8         | mg/kg         | 02.01.20 04.16       | 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          | 99                | %            | 70-135        | 02.01.20 04.16       |             |     |
| o-Terphenyl                        | 84-15-1           | 105               | %            | 70-135        | 02.01.20 04.16       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-14 (10')  
Lab Sample Id: 650797-036

Matrix: Soil  
Date Collected: 01.23.20 13.16

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 17.47       | 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          | 99                | %            | 68-120        | 02.01.20 17.47       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 119               | %            | 71-121        | 02.01.20 17.47       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-15 (1')  
Lab Sample Id: 650797-037

Matrix: Soil  
Date Collected: 01.23.20 13.17

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 198    | 4.95 | mg/kg | 01.31.20 00.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2180       | 250   | mg/kg  | 02.01.20 04.38 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 14300      | 250   | mg/kg  | 02.01.20 04.38 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1420       | 250   | mg/kg  | 02.01.20 04.38 |      | 5   |
| Total TPH                          | PHC635     | 17900      | 250   | mg/kg  | 02.01.20 04.38 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 111        | %     | 70-135 | 02.01.20 04.38 |      |     |
| o-Terphenyl                        | 84-15-1    | 83         | %     | 70-135 | 02.01.20 04.38 |      |     |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-15 (1')  
 Lab Sample Id: 650797-037

Matrix: Soil  
 Date Collected: 01.23.20 13.17

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>         | 71-43-2           | <b>1.17</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>Toluene</b>         | 108-88-3          | <b>16.0</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>Ethylbenzene</b>    | 100-41-4          | <b>20.5</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>m,p-Xylenes</b>     | 179601-23-1       | <b>31.1</b>       | 0.199        | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>o-Xylene</b>        | 95-47-6           | <b>13.7</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>Total Xylenes</b>   | 1330-20-7         | <b>44.8</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <b>Total BTEX</b>      |                   | <b>82.5</b>       | 0.0994       | mg/kg         | 02.02.20 01.28       |             | 5   |
| <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          | 260               | %            | 68-120        | 02.02.20 01.28       | **          |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 99                | %            | 71-121        | 02.02.20 01.28       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-15 (3')  
Lab Sample Id: 650797-038

Matrix: Soil  
Date Collected: 01.23.20 13.39

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.02  | 5.02 | mg/kg | 01.31.20 00.31 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 04.59 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 104        | %     | 70-135 | 02.01.20 04.59 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 02.01.20 04.59 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-15 (3')  
 Lab Sample Id: 650797-038

Matrix: Soil  
 Date Collected: 01.23.20 13.39

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| Toluene                | 108-88-3          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0397           | 0.0397       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | U           | 1   |
| Total BTEX             |                   | <0.0198           | 0.0198       | mg/kg         | 02.01.20 18.12       | 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          | 96                | %            | 68-120        | 02.01.20 18.12       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 118               | %            | 71-121        | 02.01.20 18.12       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-15 (5')  
Lab Sample Id: 650797-039

Matrix: Soil  
Date Collected: 01.23.20 13.40

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 16.50

Basis: Wet Weight

Seq Number: 3115061

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 51.7   | 5.00 | mg/kg | 01.31.20 00.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.01.20 05.20 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 98         | %     | 70-135 | 02.01.20 05.20 |      |
| o-Terphenyl    | 84-15-1    | 95         | %     | 70-135 | 02.01.20 05.20 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-15 (5')  
Lab Sample Id: 650797-039

Matrix: Soil  
Date Collected: 01.23.20 13.40

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| Toluene                | 108-88-3          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0399           | 0.0399       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | U           | 1   |
| Total BTEX             |                   | <0.0200           | 0.0200       | mg/kg         | 02.01.20 18.36       | 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> |     |
| 4-Bromofluorobenzene   | 460-00-4          | 100               | %            | 68-120        | 02.01.20 18.36       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 125               | %            | 71-121        | 02.01.20 18.36       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-15 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-040

Date Collected: 01.23.20 13.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 34.6   | 5.04 | mg/kg | 01.31.20 09.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 14.15

Basis: Wet Weight

Seq Number: 3115320

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.01.20 05.42       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.01.20 05.42       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.01.20 05.42       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.01.20 05.42       | 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          | 89                | %            | 70-135        | 02.01.20 05.42       |             |     |
| o-Terphenyl                        | 84-15-1           | 91                | %            | 70-135        | 02.01.20 05.42       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-15 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-040

Date Collected: 01.23.20 13.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.31.20 12.45

Basis: Wet Weight

Seq Number: 3115331

NO\_CERT#

| Parameter              | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene                | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| Toluene                | 108-88-3          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| Ethylbenzene           | 100-41-4          | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| m,p-Xylenes            | 179601-23-1       | <0.0398           | 0.0398       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| o-Xylene               | 95-47-6           | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| Total Xylenes          | 1330-20-7         | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | U           | 1   |
| Total BTEX             |                   | <0.0199           | 0.0199       | mg/kg         | 02.01.20 19.01       | 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          | 89                | %            | 68-120        | 02.01.20 19.01       |             |     |
| a,a,a-Trifluorotoluene | 98-08-8           | 106               | %            | 71-121        | 02.01.20 19.01       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-16(1')**  
Lab Sample Id: 650797-041

Matrix: Soil  
Date Collected: 01.23.20 13.57

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115209

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 08.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 188    | 4.96 | mg/kg | 01.31.20 09.24 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115325

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 16.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 733        | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 4030       | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 355        | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Total TPH                          | PHC635     | 5120       | 249   | mg/kg  | 01.31.20 22.58 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 118        | %     | 70-135 | 01.31.20 22.58 |      |     |
| o-Terphenyl                        | 84-15-1    | 107        | %     | 70-135 | 01.31.20 22.58 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-16(1')**  
Lab Sample Id: 650797-041

Matrix: Soil  
Date Collected: 01.23.20 13.57

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.05.20 16.00

Basis: Wet Weight

Seq Number: 3115685

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0202           | 0.0202       | mg/kg         | 02.06.20 01.24       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.943</b>      | 0.0202       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>2.02</b>       | 0.0202       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>3.78</b>       | 0.0403       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>1.61</b>       | 0.0202       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>5.39</b>       | 0.0202       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>8.35</b>       | 0.0202       | mg/kg         | 02.06.20 01.24       |             | 10  |
| <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          | 92                | %            | 70-130        | 02.06.20 01.24       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 182               | %            | 70-130        | 02.06.20 01.24       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-16 (3')  
Lab Sample Id: 650797-042

Matrix: Soil  
Date Collected: 01.24.20 11.05

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 01.31.20 09.31 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 21.56 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 92         | %     | 70-135 | 01.31.20 21.56 |      |
| o-Terphenyl    | 84-15-1    | 93         | %     | 70-135 | 01.31.20 21.56 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-16 (3')  
Lab Sample Id: 650797-042

Matrix: Soil  
Date Collected: 01.24.20 11.05

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.05.20 16.00

Basis: Wet Weight

Seq Number: 3115685

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 02.06.20 01.45       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 02.06.20 01.45       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 02.06.20 01.45       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 02.06.20 01.45       | U           | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.00340</b>    | 0.00201      | mg/kg         | 02.06.20 01.45       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.00340</b>    | 0.00201      | mg/kg         | 02.06.20 01.45       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.00340</b>    | 0.00201      | mg/kg         | 02.06.20 01.45       |             | 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          | 76                | %            | 70-130        | 02.06.20 01.45       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 76                | %            | 70-130        | 02.06.20 01.45       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-16 (5')  
Lab Sample Id: 650797-043

Matrix: Soil  
Date Collected: 01.24.20 11.06

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 36.8   | 5.02 | mg/kg | 01.31.20 09.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 23.19 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 84         | %     | 70-135 | 01.31.20 23.19 |      |
| o-Terphenyl    | 84-15-1    | 83         | %     | 70-135 | 01.31.20 23.19 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-16 (5')  
Lab Sample Id: 650797-043

Matrix: Soil  
Date Collected: 01.24.20 11.06

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.05.20 16.00

Basis: Wet Weight

Seq Number: 3115685

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.06.20 02.05       | 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          | 85                | %            | 70-130        | 02.06.20 02.05       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 116               | %            | 70-130        | 02.06.20 02.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-16 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-044

Date Collected: 01.24.20 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 27.4   | 5.05 | mg/kg | 01.31.20 10.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 01.31.20 23.40       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 01.31.20 23.40       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 01.31.20 23.40       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 01.31.20 23.40       | 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          | 84                | %            | 70-135        | 01.31.20 23.40       |             |     |
| o-Terphenyl                        | 84-15-1           | 85                | %            | 70-135        | 01.31.20 23.40       |             |     |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-16 (10')**  
Lab Sample Id: 650797-044

Matrix: Soil  
Date Collected: 01.24.20 11.10

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.05.20 16.00

Basis: Wet Weight

Seq Number: 3115685

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.06.20 02.25       | 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          | 82                | %            | 70-130        | 02.06.20 02.25       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 114               | %            | 70-130        | 02.06.20 02.25       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-17 (1')  
 Lab Sample Id: 650797-045

Matrix: Soil  
 Date Collected: 01.24.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 242    | 4.98 | mg/kg | 01.31.20 10.11 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2760   | 249 | mg/kg | 02.01.20 00.01 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 14800  | 249 | mg/kg | 02.01.20 00.01 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1340   | 249 | mg/kg | 02.01.20 00.01 |      | 5   |
| Total TPH                          | PHC635     | 18900  | 249 | mg/kg | 02.01.20 00.01 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 02.01.20 00.01 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 02.01.20 00.01 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (1')  
Lab Sample Id: 650797-045

Matrix: Soil  
Date Collected: 01.24.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.423</b>      | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>13.1</b>       | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>14.5</b>       | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>25.8</b>       | 0.395        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>12.1</b>       | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>37.9</b>       | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>65.9</b>       | 0.198        | mg/kg         | 01.31.20 23.07       |             | 100 |
| <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        | 01.31.20 23.07       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 98                | %            | 70-130        | 01.31.20 23.07       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (3')  
Lab Sample Id: 650797-046

Matrix: Soil  
Date Collected: 01.24.20 11.32

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 01.31.20 10.17 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 00.22 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 02.01.20 00.22 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 02.01.20 00.22 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (3')  
Lab Sample Id: 650797-046

Matrix: Soil  
Date Collected: 01.24.20 11.32

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.59       | 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        | 01.31.20 15.59       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 01.31.20 15.59       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (5')  
Lab Sample Id: 650797-047

Matrix: Soil  
Date Collected: 01.24.20 11.33

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.05  | 5.05 | mg/kg | 01.31.20 10.24 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 00.43 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 00.43 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 00.43 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 00.43 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 02.01.20 00.43 |      |
| o-Terphenyl    | 84-15-1    | 85         | %     | 70-135 | 02.01.20 00.43 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (5')  
Lab Sample Id: 650797-047

Matrix: Soil  
Date Collected: 01.24.20 11.33

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00395          | 0.00395      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 01.31.20 16.20       | 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          | 102               | %            | 70-130        | 01.31.20 16.20       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 01.31.20 16.20       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-17 (7')  
Lab Sample Id: 650797-048

Matrix: Soil  
Date Collected: 01.24.20 11.38

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 12.0   | 5.05 | mg/kg | 01.31.20 10.31 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.01.20 01.04       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.01.20 01.04       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.01.20 01.04       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.01.20 01.04       | 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-Chlorooctane                     | 111-85-3          | 86                | %            | 70-135        | 02.01.20 01.04       |             |     |
| o-Terphenyl                        | 84-15-1           | 86                | %            | 70-135        | 02.01.20 01.04       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-17 (7')  
Lab Sample Id: 650797-048

Matrix: Soil  
Date Collected: 01.24.20 11.38

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 16.40       | 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          | 104               | %            | 70-130        | 01.31.20 16.40       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 101               | %            | 70-130        | 01.31.20 16.40       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-19 (1')  
Lab Sample Id: 650797-049

Matrix: Soil  
Date Collected: 01.24.20 11.39

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1350   | 5.00 | mg/kg | 01.31.20 10.37 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1410       | 250   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 7410       | 250   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 669        | 250   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Total TPH                          | PHC635     | 9490       | 250   | mg/kg  | 02.01.20 01.26 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 95         | %     | 70-135 | 02.01.20 01.26 |      |     |
| o-Terphenyl                        | 84-15-1    | 94         | %     | 70-135 | 02.01.20 01.26 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-19 (1')**  
Lab Sample Id: 650797-049

Matrix: Soil  
Date Collected: 01.24.20 11.39

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.134</b>      | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>4.30</b>       | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>4.63</b>       | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>11.1</b>       | 0.125        | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>6.51</b>       | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>17.6</b>       | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>26.7</b>       | 0.0625       | mg/kg         | 01.31.20 21.46       |             | 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          | 98                | %            | 70-130        | 01.31.20 21.46       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 116               | %            | 70-130        | 01.31.20 21.46       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-19 (3')  
Lab Sample Id: 650797-050

Matrix: Soil  
Date Collected: 01.24.20 12.32

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115209

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 08.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.8   | 5.00 | mg/kg | 01.31.20 10.44 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115325

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 16.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 01.47 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 84.8   | 50.0 | mg/kg | 02.01.20 01.47 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 01.47 | U    | 1   |
| Total TPH                          | PHC635     | 84.8   | 50.0 | mg/kg | 02.01.20 01.47 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 84         | %     | 70-135 | 02.01.20 01.47 |      |
| o-Terphenyl    | 84-15-1    | 83         | %     | 70-135 | 02.01.20 01.47 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-19 (3')  
Lab Sample Id: 650797-050

Matrix: Soil  
Date Collected: 01.24.20 12.32

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.00       | 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          | 98                | %            | 70-130        | 01.31.20 17.00       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 100               | %            | 70-130        | 01.31.20 17.00       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-19 (5')  
Lab Sample Id: 650797-051

Matrix: Soil  
Date Collected: 01.24.20 12.33

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.96  | 4.96 | mg/kg | 01.31.20 11.04 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 02.30 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 84         | %     | 70-135 | 02.01.20 02.30 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 02.01.20 02.30 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-19 (5')  
Lab Sample Id: 650797-051

Matrix: Soil  
Date Collected: 01.24.20 12.33

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.21       | 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          | 104               | %            | 70-130        | 01.31.20 17.21       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 100               | %            | 70-130        | 01.31.20 17.21       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-19 (10')  
Lab Sample Id: 650797-052

Matrix: Soil  
Date Collected: 01.24.20 12.37

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 01.31.20 11.24 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 02.01.20 02.51 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 02.01.20 02.51 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 02.01.20 02.51 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 02.01.20 02.51 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 02.01.20 02.51 |      |
| o-Terphenyl    | 84-15-1    | 85         | %     | 70-135 | 02.01.20 02.51 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-19 (10')  
Lab Sample Id: 650797-052

Matrix: Soil  
Date Collected: 01.24.20 12.37

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.41       | 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          | 103               | %            | 70-130        | 01.31.20 17.41       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 01.31.20 17.41       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (1')  
Lab Sample Id: 650797-053

Matrix: Soil  
Date Collected: 01.24.20 12.38

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 480    | 5.02 | mg/kg | 01.31.20 11.30 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2410       | 249   | mg/kg  | 02.01.20 03.12 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 15100      | 249   | mg/kg  | 02.01.20 03.12 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1350       | 249   | mg/kg  | 02.01.20 03.12 |      | 5   |
| Total TPH                          | PHC635     | 18900      | 249   | mg/kg  | 02.01.20 03.12 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 102        | %     | 70-135 | 02.01.20 03.12 |      |     |
| o-Terphenyl                        | 84-15-1    | 97         | %     | 70-135 | 02.01.20 03.12 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (1')  
Lab Sample Id: 650797-053

Matrix: Soil  
Date Collected: 01.24.20 12.38

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>1.94</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>21.1</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>19.8</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>34.0</b>       | 0.398        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>16.5</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>50.5</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>93.3</b>       | 0.199        | mg/kg         | 01.31.20 23.28       |             | 100 |
|                      |                   |                   |              |               |                      |             |     |
| <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        | 01.31.20 23.28       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 103               | %            | 70-130        | 01.31.20 23.28       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (3')  
Lab Sample Id: 650797-054

Matrix: Soil  
Date Collected: 01.24.20 12.53

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.05  | 5.05 | mg/kg | 01.31.20 11.37 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0       | 50.0 | mg/kg | 02.01.20 03.34 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>90.2</b> | 50.0 | mg/kg | 02.01.20 03.34 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0       | 50.0 | mg/kg | 02.01.20 03.34 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>90.2</b> | 50.0 | mg/kg | 02.01.20 03.34 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 89         | %     | 70-135 | 02.01.20 03.34 |      |
| o-Terphenyl    | 84-15-1    | 88         | %     | 70-135 | 02.01.20 03.34 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-20 (3')  
 Lab Sample Id: 650797-054

Matrix: Soil  
 Date Collected: 01.24.20 12.53

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00396          | 0.00396      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 01.31.20 18.01       | 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          | 96                | %            | 70-130        | 01.31.20 18.01       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 01.31.20 18.01       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (5')  
Lab Sample Id: 650797-055

Matrix: Soil  
Date Collected: 01.24.20 12.54

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.05  | 5.05 | mg/kg | 01.31.20 11.44 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 03.55 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 03.55 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 03.55 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 03.55 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 02.01.20 03.55 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 02.01.20 03.55 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (5')  
Lab Sample Id: 650797-055

Matrix: Soil  
Date Collected: 01.24.20 12.54

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 18.22       | 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        | 01.31.20 18.22       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 102               | %            | 70-130        | 01.31.20 18.22       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (7')  
Lab Sample Id: 650797-056

Matrix: Soil  
Date Collected: 01.24.20 12.58

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 01.31.20 11.50 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 04.16 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 04.16 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 04.16 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 04.16 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 02.01.20 04.16 |      |
| o-Terphenyl    | 84-15-1    | 93         | %     | 70-135 | 02.01.20 04.16 |      |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-20 (7')  
Lab Sample Id: 650797-056

Matrix: Soil  
Date Collected: 01.24.20 12.58

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| Toluene              | 108-88-3          | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.0800           | 0.0800       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | U           | 1   |
| Total BTEX           |                   | <0.0400           | 0.0400       | mg/kg         | 01.31.20 18.42       | 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          | 104               | %            | 70-130        | 01.31.20 18.42       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 70-130        | 01.31.20 18.42       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-21 (1')  
Lab Sample Id: 650797-057

Matrix: Soil  
Date Collected: 01.24.20 12.59

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 850    | 4.96 | mg/kg | 01.31.20 11.57 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1330   | 249 | mg/kg | 02.01.20 04.38 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 12600  | 249 | mg/kg | 02.01.20 04.38 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1380   | 249 | mg/kg | 02.01.20 04.38 |      | 5   |
| Total TPH                          | PHC635     | 15300  | 249 | mg/kg | 02.01.20 04.38 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 96         | %     | 70-135 | 02.01.20 04.38 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 02.01.20 04.38 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-21 (1')  
Lab Sample Id: 650797-057

Matrix: Soil  
Date Collected: 01.24.20 12.59

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.00258</b>    | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.117</b>      | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.187</b>      | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.388</b>      | 0.00399      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.204</b>      | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.592</b>      | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.899</b>      | 0.00200      | mg/kg         | 01.31.20 22.06       |             | 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          | 98                | %            | 70-130        | 01.31.20 22.06       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 132               | %            | 70-130        | 01.31.20 22.06       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-21 (3')  
Lab Sample Id: 650797-058

Matrix: Soil  
Date Collected: 01.24.20 13.15

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 5.47   | 4.98 | mg/kg | 01.31.20 12.04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 02.01.20 04.59 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 02.01.20 04.59 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 85         | %     | 70-135 | 02.01.20 04.59 |      |
| o-Terphenyl    | 84-15-1    | 85         | %     | 70-135 | 02.01.20 04.59 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-21 (3')  
Lab Sample Id: 650797-058

Matrix: Soil  
Date Collected: 01.24.20 13.15

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 19.43       | 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        | 01.31.20 19.43       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 01.31.20 19.43       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-21 (5')  
Lab Sample Id: 650797-059

Matrix: Soil  
Date Collected: 01.24.20 13.16

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 08.00

Basis: Wet Weight

Seq Number: 3115209

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 01.31.20 12.10 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 05.20 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 05.20 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 102        | %     | 70-135 | 02.01.20 05.20 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 02.01.20 05.20 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-21 (5')  
Lab Sample Id: 650797-059

Matrix: Soil  
Date Collected: 01.24.20 13.16

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 20.04       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 70-130        | 01.31.20 20.04       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 01.31.20 20.04       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-22 (1')  
Lab Sample Id: 650797-060

Matrix: Soil  
Date Collected: 01.24.20 13.17

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 53.4   | 5.05 | mg/kg | 01.31.20 09.50 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 16.00

Basis: Wet Weight

Seq Number: 3115325

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1100       | 250   | mg/kg  | 02.01.20 05.42 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 10500      | 250   | mg/kg  | 02.01.20 05.42 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 925        | 250   | mg/kg  | 02.01.20 05.42 |      | 5   |
| Total TPH                          | PHC635     | 12500      | 250   | mg/kg  | 02.01.20 05.42 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 112        | %     | 70-135 | 02.01.20 05.42 |      |     |
| o-Terphenyl                        | 84-15-1    | 109        | %     | 70-135 | 02.01.20 05.42 |      |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-22 (1')  
Lab Sample Id: 650797-060

Matrix: Soil  
Date Collected: 01.24.20 13.17

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0833           | 0.0833       | mg/kg         | 01.31.20 22.27       | U           | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>1.90</b>       | 0.0833       | mg/kg         | 01.31.20 22.27       |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>4.52</b>       | 0.0833       | mg/kg         | 01.31.20 22.27       |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>9.08</b>       | 0.167        | mg/kg         | 01.31.20 22.27       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>5.07</b>       | 0.0833       | mg/kg         | 01.31.20 22.27       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>14.2</b>       | 0.0833       | mg/kg         | 01.31.20 22.27       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>20.6</b>       | 0.0833       | mg/kg         | 01.31.20 22.27       |             | 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          | 125               | %            | 70-130        | 01.31.20 22.27       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 01.31.20 22.27       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-22 (3')  
Lab Sample Id: 650797-061

Matrix: Soil  
Date Collected: 01.24.20 13.24

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 16.8   | 4.99 | mg/kg | 01.31.20 10.10 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 12.30 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 50.7   | 50.0 | mg/kg | 01.31.20 12.30 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 12.30 | U    | 1   |
| Total TPH                          | PHC635     | 50.7   | 50.0 | mg/kg | 01.31.20 12.30 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 01.31.20 12.30 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 01.31.20 12.30 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-22 (3')  
Lab Sample Id: 650797-061

Matrix: Soil  
Date Collected: 01.24.20 13.24

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number  | Result     | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00200   | 0.00200 | mg/kg | 01.31.20 20.24 | U              | 1    |
| Toluene              | 108-88-3    | <0.00200   | 0.00200 | mg/kg | 01.31.20 20.24 | U              | 1    |
| Ethylbenzene         | 100-41-4    | 0.00241    | 0.00200 | mg/kg | 01.31.20 20.24 |                | 1    |
| m,p-Xylenes          | 179601-23-1 | 0.00623    | 0.00399 | mg/kg | 01.31.20 20.24 |                | 1    |
| o-Xylene             | 95-47-6     | 0.00376    | 0.00200 | mg/kg | 01.31.20 20.24 |                | 1    |
| Total Xylenes        | 1330-20-7   | 0.00999    | 0.00200 | mg/kg | 01.31.20 20.24 |                | 1    |
| Total BTEX           |             | 0.0124     | 0.00200 | mg/kg | 01.31.20 20.24 |                | 1    |
| Surrogate            | Cas Number  | % Recovery |         | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 102        |         | %     | 70-130         | 01.31.20 20.24 |      |
| 4-Bromofluorobenzene | 460-00-4    | 102        |         | %     | 70-130         | 01.31.20 20.24 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-22 (5')  
Lab Sample Id: 650797-062

Matrix: Soil  
Date Collected: 01.24.20 13.25

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 8.80   | 4.96 | mg/kg | 01.31.20 10.17 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 13.33       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 13.33       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 13.33       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 13.33       | 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          | 85                | %            | 70-135        | 01.31.20 13.33       |             |     |
| o-Terphenyl                        | 84-15-1           | 85                | %            | 70-135        | 01.31.20 13.33       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-22 (5')  
Lab Sample Id: 650797-062

Matrix: Soil  
Date Collected: 01.24.20 13.25

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 01.31.20 20.45       | 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          | 104               | %            | 70-130        | 01.31.20 20.45       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 106               | %            | 70-130        | 01.31.20 20.45       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-22 (10')  
Lab Sample Id: 650797-063

Matrix: Soil  
Date Collected: 01.24.20 13.46

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 18.6   | 4.95 | mg/kg | 01.31.20 10.23 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 01.31.20 13.54       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 01.31.20 13.54       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 01.31.20 13.54       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 01.31.20 13.54       | 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          | 84                | %            | 70-135        | 01.31.20 13.54       |             |     |
| o-Terphenyl                        | 84-15-1           | 85                | %            | 70-135        | 01.31.20 13.54       |             |     |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-22 (10')  
 Lab Sample Id: 650797-063

Matrix: Soil  
 Date Collected: 01.24.20 13.46

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.05.20 16.00

Basis: Wet Weight

Seq Number: 3115685

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.06.20 03.44       | 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          | 69                | %            | 70-130        | 02.06.20 03.44       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 112               | %            | 70-130        | 02.06.20 03.44       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-23 (1')  
Lab Sample Id: 650797-064

Matrix: Soil  
Date Collected: 01.27.20 12.45

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 36.7   | 5.02 | mg/kg | 01.31.20 10.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 352        | 250   | mg/kg  | 01.31.20 14.15 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 4240       | 250   | mg/kg  | 01.31.20 14.15 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 412        | 250   | mg/kg  | 01.31.20 14.15 |      | 5   |
| Total TPH                          | PHC635     | 5000       | 250   | mg/kg  | 01.31.20 14.15 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 96         | %     | 70-135 | 01.31.20 14.15 |      |     |
| o-Terphenyl                        | 84-15-1    | 89         | %     | 70-135 | 01.31.20 14.15 |      |     |





# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-23 (1')  
Lab Sample Id: 650797-064

Matrix: Soil  
Date Collected: 01.27.20 12.45

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0301</b>     | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.107</b>      | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>1.60</b>       | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>4.29</b>       | 0.0399       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>2.15</b>       | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>6.44</b>       | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>8.18</b>       | 0.0200       | mg/kg         | 02.06.20 15.25       |             | 10  |
| <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          | 363               | %            | 70-130        | 02.06.20 15.25       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 87                | %            | 70-130        | 02.06.20 15.25       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-23 (3')  
Lab Sample Id: 650797-065

Matrix: Soil  
Date Collected: 01.27.20 12.46

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.2   | 5.05 | mg/kg | 01.31.20 11.05 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 14.36 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 14.36 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 14.36 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 14.36 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 83         | %     | 70-135 | 01.31.20 14.36 |      |
| o-Terphenyl    | 84-15-1    | 84         | %     | 70-135 | 01.31.20 14.36 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-23 (3')  
Lab Sample Id: 650797-065

Matrix: Soil  
Date Collected: 01.27.20 12.46

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.05       | 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          | 102               | %            | 70-130        | 01.31.20 21.05       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 01.31.20 21.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-23 (5')  
Lab Sample Id: 650797-066

Matrix: Soil  
Date Collected: 01.27.20 12.55

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 9.96   | 5.05 | mg/kg | 01.31.20 11.12 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 14.57 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 14.57 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 14.57 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 14.57 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 01.31.20 14.57 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 01.31.20 14.57 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-23 (5')  
Lab Sample Id: 650797-066

Matrix: Soil  
Date Collected: 01.27.20 12.55

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115240

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 21.25       | 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        | 01.31.20 21.25       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 01.31.20 21.25       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-23 (10')  
Lab Sample Id: 650797-067

Matrix: Soil  
Date Collected: 01.27.20 12.56

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115213

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 09.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 19.1   | 5.00 | mg/kg | 01.31.20 11.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115329

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 10.00

Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 01.31.20 15.18       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 01.31.20 15.18       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 01.31.20 15.18       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 01.31.20 15.18       | 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          | 85                | %            | 70-135        | 01.31.20 15.18       |             |     |
| o-Terphenyl                        | 84-15-1           | 87                | %            | 70-135        | 01.31.20 15.18       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-23 (10')  
 Lab Sample Id: 650797-067

Matrix: Soil  
 Date Collected: 01.27.20 12.56

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 13.50       | 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          | 97                | %            | 70-130        | 01.31.20 13.50       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 01.31.20 13.50       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-25 (1')  
Lab Sample Id: 650797-068

Matrix: Soil  
Date Collected: 01.27.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115213

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 09.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 23.1   | 5.03 | mg/kg | 01.31.20 11.25 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115329

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 10.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1210       | 250   | mg/kg  | 01.31.20 15.39 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 8800       | 250   | mg/kg  | 01.31.20 15.39 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 775        | 250   | mg/kg  | 01.31.20 15.39 |      | 5   |
| Total TPH                          | PHC635     | 10800      | 250   | mg/kg  | 01.31.20 15.39 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 97         | %     | 70-135 | 01.31.20 15.39 |      |     |
| o-Terphenyl                        | 84-15-1    | 95         | %     | 70-135 | 01.31.20 15.39 |      |     |





# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-25 (1')  
 Lab Sample Id: 650797-068

Matrix: Soil  
 Date Collected: 01.27.20 13.07

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.182</b>      | 0.0505       | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>8.87</b>       | 0.202        | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>19.1</b>       | 0.202        | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>40.2</b>       | 0.404        | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>17.3</b>       | 0.202        | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>57.5</b>       | 0.202        | mg/kg         | 02.01.20 13.33       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>85.7</b>       | 0.0505       | mg/kg         | 02.01.20 13.33       |             | 100 |
| <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          | 99                | %            | 70-130        | 02.01.20 13.33       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 02.01.20 13.33       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-25 (3')  
Lab Sample Id: 650797-069

Matrix: Soil  
Date Collected: 01.27.20 13.08

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 72.1   | 5.01 | mg/kg | 01.31.20 11.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1560       | 250   | mg/kg  | 01.31.20 16.00 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 33400      | 250   | mg/kg  | 01.31.20 16.00 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 3230       | 250   | mg/kg  | 01.31.20 16.00 |      | 5   |
| Total TPH                          | PHC635     | 38200      | 250   | mg/kg  | 01.31.20 16.00 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 99         | %     | 70-135 | 01.31.20 16.00 |      |     |
| o-Terphenyl                        | 84-15-1    | 80         | %     | 70-135 | 01.31.20 16.00 |      |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-25 (3')  
Lab Sample Id: 650797-069

Matrix: Soil  
Date Collected: 01.27.20 13.08

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0501           | 0.0501       | mg/kg         | 02.01.20 13.53       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>4.09</b>       | 0.200        | mg/kg         | 02.01.20 13.53       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.55</b>       | 0.200        | mg/kg         | 02.01.20 13.53       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>15.9</b>       | 0.401        | mg/kg         | 02.01.20 13.53       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>7.50</b>       | 0.200        | mg/kg         | 02.01.20 13.53       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>23.4</b>       | 0.200        | mg/kg         | 02.01.20 13.53       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>34.0</b>       | 0.0501       | mg/kg         | 02.01.20 13.53       |             | 100 |
| <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          | 103               | %            | 70-130        | 02.01.20 13.53       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 96                | %            | 70-130        | 02.01.20 13.53       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-25 (5')  
Lab Sample Id: 650797-070

Matrix: Soil  
Date Collected: 01.27.20 13.13

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 11.2   | 5.00 | mg/kg | 01.31.20 11.38 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 01.31.20 16.20       | U           | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO         | <b>193</b>        | 49.9         | mg/kg         | 01.31.20 16.20       |             | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 01.31.20 16.20       | U           | 1   |
| <b>Total TPH</b>                   | PHC635            | <b>193</b>        | 49.9         | mg/kg         | 01.31.20 16.20       |             | 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          | 88                | %            | 70-135        | 01.31.20 16.20       |             |     |
| o-Terphenyl                        | 84-15-1           | 91                | %            | 70-135        | 01.31.20 16.20       |             |     |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-25 (5')  
 Lab Sample Id: 650797-070

Matrix: Soil  
 Date Collected: 01.27.20 13.13

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 01.31.20 14.30       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 93                | %            | 70-130        | 01.31.20 14.30       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 01.31.20 14.30       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-25 (10')  
Lab Sample Id: 650797-071

Matrix: Soil  
Date Collected: 01.27.20 13.14

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 8.96   | 4.96 | mg/kg | 01.31.20 11.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 01.31.20 17.02       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.8             | 49.8         | mg/kg         | 01.31.20 17.02       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 01.31.20 17.02       | U           | 1   |
| Total TPH                          | PHC635            | <49.8             | 49.8         | mg/kg         | 01.31.20 17.02       | 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          | 88                | %            | 70-135        | 01.31.20 17.02       |             |     |
| o-Terphenyl                        | 84-15-1           | 89                | %            | 70-135        | 01.31.20 17.02       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-25 (10')  
Lab Sample Id: 650797-071

Matrix: Soil  
Date Collected: 01.27.20 13.14

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 15.27       | 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        | 01.31.20 15.27       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 70-130        | 01.31.20 15.27       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-26 (1')  
Lab Sample Id: 650797-072

Matrix: Soil  
Date Collected: 01.27.20 13.25

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 21.3   | 4.99 | mg/kg | 01.31.20 12.18 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1260       | 250   | mg/kg  | 01.31.20 17.24 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 12300      | 250   | mg/kg  | 01.31.20 17.24 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1060       | 250   | mg/kg  | 01.31.20 17.24 |      | 5   |
| Total TPH                          | PHC635     | 14600      | 250   | mg/kg  | 01.31.20 17.24 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 99         | %     | 70-135 | 01.31.20 17.24 |      |     |
| o-Terphenyl                        | 84-15-1    | 97         | %     | 70-135 | 01.31.20 17.24 |      |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-26 (1')  
Lab Sample Id: 650797-072

Matrix: Soil  
Date Collected: 01.27.20 13.25

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0499           | 0.0499       | mg/kg         | 02.01.20 14.14       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>2.06</b>       | 0.200        | mg/kg         | 02.01.20 14.14       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>3.29</b>       | 0.200        | mg/kg         | 02.01.20 14.14       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>6.69</b>       | 0.399        | mg/kg         | 02.01.20 14.14       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>3.01</b>       | 0.200        | mg/kg         | 02.01.20 14.14       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>9.70</b>       | 0.200        | mg/kg         | 02.01.20 14.14       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>15.1</b>       | 0.0499       | mg/kg         | 02.01.20 14.14       |             | 100 |
| <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          | 104               | %            | 70-130        | 02.01.20 14.14       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 98                | %            | 70-130        | 02.01.20 14.14       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-26 (3')  
Lab Sample Id: 650797-073

Matrix: Soil  
Date Collected: 01.27.20 13.26

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 14.5   | 5.00 | mg/kg | 01.31.20 12.25 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 17.45       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 17.45       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 17.45       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 17.45       | 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          | 88                | %            | 70-135        | 01.31.20 17.45       |             |     |
| o-Terphenyl                        | 84-15-1           | 87                | %            | 70-135        | 01.31.20 17.45       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-26 (3')  
Lab Sample Id: 650797-073

Matrix: Soil  
Date Collected: 01.27.20 13.26

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 01.31.20 15.47       | 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        | 01.31.20 15.47       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 01.31.20 15.47       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-26 (5')  
Lab Sample Id: 650797-074

Matrix: Soil  
Date Collected: 01.27.20 13.32

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 12.1   | 4.97 | mg/kg | 01.31.20 12.32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 01.31.20 18.05       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.8             | 49.8         | mg/kg         | 01.31.20 18.05       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 01.31.20 18.05       | U           | 1   |
| Total TPH                          | PHC635            | <49.8             | 49.8         | mg/kg         | 01.31.20 18.05       | 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          | 84                | %            | 70-135        | 01.31.20 18.05       |             |     |
| o-Terphenyl                        | 84-15-1           | 85                | %            | 70-135        | 01.31.20 18.05       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-26 (5')  
 Lab Sample Id: 650797-074

Matrix: Soil  
 Date Collected: 01.27.20 13.32

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.07       | 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        | 01.31.20 16.07       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 01.31.20 16.07       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-26 (10')  
Lab Sample Id: 650797-075

Matrix: Soil  
Date Collected: 01.27.20 13.33

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 57.0   | 24.8 | mg/kg | 01.31.20 12.38 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 18.26 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 18.26 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 01.31.20 18.26 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 01.31.20 18.26 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-26 (10')  
Lab Sample Id: 650797-075

Matrix: Soil  
Date Collected: 01.27.20 13.33

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 01.31.20 16.28       | 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        | 01.31.20 16.28       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 99                | %            | 70-130        | 01.31.20 16.28       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-27 (1')  
Lab Sample Id: 650797-076

Matrix: Soil  
Date Collected: 01.27.20 13.45

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 82.9   | 4.99 | mg/kg | 01.31.20 12.45 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2160       | 250   | mg/kg  | 01.31.20 18.47 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 20100      | 250   | mg/kg  | 01.31.20 18.47 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1880       | 250   | mg/kg  | 01.31.20 18.47 |      | 5   |
| Total TPH                          | PHC635     | 24100      | 250   | mg/kg  | 01.31.20 18.47 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 99         | %     | 70-135 | 01.31.20 18.47 |      |     |
| o-Terphenyl                        | 84-15-1    | 108        | %     | 70-135 | 01.31.20 18.47 |      |     |





# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-27 (1')  
Lab Sample Id: 650797-076

Matrix: Soil  
Date Collected: 01.27.20 13.45

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0642</b>     | 0.0494       | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>8.59</b>       | 0.198        | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>12.5</b>       | 0.198        | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>23.4</b>       | 0.395        | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>9.68</b>       | 0.198        | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>33.1</b>       | 0.198        | mg/kg         | 02.01.20 14.34       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>54.2</b>       | 0.0494       | mg/kg         | 02.01.20 14.34       |             | 100 |
| <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          | 94                | %            | 70-130        | 02.01.20 14.34       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 02.01.20 14.34       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-27 (3')  
Lab Sample Id: 650797-077

Matrix: Soil  
Date Collected: 01.27.20 13.46

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115213

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 09.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 15.2   | 4.97 | mg/kg | 01.31.20 12.52 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115329

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 10.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0      | 50.0 | mg/kg | 01.31.20 19.08 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>141</b> | 50.0 | mg/kg | 01.31.20 19.08 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0      | 50.0 | mg/kg | 01.31.20 19.08 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>141</b> | 50.0 | mg/kg | 01.31.20 19.08 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 01.31.20 19.08 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 01.31.20 19.08 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-27 (3')  
Lab Sample Id: 650797-077

Matrix: Soil  
Date Collected: 01.27.20 13.46

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 01.31.20 16.48       | 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          | 111               | %            | 70-130        | 01.31.20 16.48       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 95                | %            | 70-130        | 01.31.20 16.48       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-27 (5')  
Lab Sample Id: 650797-078

Matrix: Soil  
Date Collected: 01.27.20 13.55

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 45.7   | 4.96 | mg/kg | 01.31.20 12.58 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 19.29 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 19.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 87         | %     | 70-135 | 01.31.20 19.29 |      |
| o-Terphenyl    | 84-15-1    | 87         | %     | 70-135 | 01.31.20 19.29 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-27 (5')  
Lab Sample Id: 650797-078

Matrix: Soil  
Date Collected: 01.27.20 13.55

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 01.31.20 17.09       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 70-130        | 01.31.20 17.09       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 01.31.20 17.09       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-27 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-079

Date Collected: 01.27.20 13.56

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 09.00

Basis: Wet Weight

Seq Number: 3115213

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 130    | 4.99 | mg/kg | 01.31.20 13.05 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115329

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.50       | 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> |     |
| 1-Chlorooctane                     | 111-85-3          | 84                | %            | 70-135        | 01.31.20 19.50       |             |     |
| o-Terphenyl                        | 84-15-1           | 82                | %            | 70-135        | 01.31.20 19.50       |             |     |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-27 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-079

Date Collected: 01.27.20 13.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 01.31.20 17.29       | 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        | 01.31.20 17.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 98                | %            | 70-130        | 01.31.20 17.29       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-28 (1')  
Lab Sample Id: 650797-080

Matrix: Soil  
Date Collected: 01.27.20 14.07

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115214

Prep Method: E300P

% Moisture:

Date Prep: 01.31.20 12.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 63.7   | 5.03 | mg/kg | 01.31.20 13.02 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115329

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 10.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 511        | 250   | mg/kg  | 01.31.20 20.11 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 7910       | 250   | mg/kg  | 01.31.20 20.11 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 908        | 250   | mg/kg  | 01.31.20 20.11 |      | 5   |
| Total TPH                          | PHC635     | 9330       | 250   | mg/kg  | 01.31.20 20.11 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 100        | %     | 70-135 | 01.31.20 20.11 |      |     |
| o-Terphenyl                        | 84-15-1    | 98         | %     | 70-135 | 01.31.20 20.11 |      |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-28 (1')  
Lab Sample Id: 650797-080

Matrix: Soil  
Date Collected: 01.27.20 14.07

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0500           | 0.0500       | mg/kg         | 02.01.20 14.55       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>2.06</b>       | 0.200        | mg/kg         | 02.01.20 14.55       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>3.01</b>       | 0.200        | mg/kg         | 02.01.20 14.55       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>2.92</b>       | 0.400        | mg/kg         | 02.01.20 14.55       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>2.76</b>       | 0.200        | mg/kg         | 02.01.20 14.55       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>5.68</b>       | 0.200        | mg/kg         | 02.01.20 14.55       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>10.8</b>       | 0.0500       | mg/kg         | 02.01.20 14.55       |             | 100 |
| <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        | 02.01.20 14.55       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 02.01.20 14.55       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-28 (3')  
Lab Sample Id: 650797-081

Matrix: Soil  
Date Collected: 01.27.20 14.08

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 01.31.20 13.22 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9       | 49.9 | mg/kg | 02.01.20 08.44 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>58.8</b> | 49.9 | mg/kg | 02.01.20 08.44 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9       | 49.9 | mg/kg | 02.01.20 08.44 | U    | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>58.8</b> | 49.9 | mg/kg | 02.01.20 08.44 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 77         | %     | 70-135 | 02.01.20 08.44 |      |
| o-Terphenyl    | 84-15-1    | 78         | %     | 70-135 | 02.01.20 08.44 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-28 (3')  
 Lab Sample Id: 650797-081

Matrix: Soil  
 Date Collected: 01.27.20 14.08

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115239

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 01.31.20 17.49       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 98                | %            | 70-130        | 01.31.20 17.49       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 01.31.20 17.49       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-28 (5')  
Lab Sample Id: 650797-082

Matrix: Soil  
Date Collected: 01.27.20 14.15

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.99  | 4.99 | mg/kg | 01.31.20 13.29 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 01.31.20 14.14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 01.31.20 14.14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 01.31.20 14.14 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 01.31.20 14.14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 74         | %     | 70-135 | 01.31.20 14.14 |      |
| o-Terphenyl    | 84-15-1    | 74         | %     | 70-135 | 01.31.20 14.14 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-28 (5')  
 Lab Sample Id: 650797-082

Matrix: Soil  
 Date Collected: 01.27.20 14.15

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 02.01.20 04.42       | 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        | 02.01.20 04.42       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 112               | %            | 70-130        | 02.01.20 04.42       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-28 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-083

Date Collected: 01.27.20 14.16

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.98  | 4.98 | mg/kg | 01.31.20 13.35 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 14.33 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 14.33 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 14.33 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 14.33 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 75         | %     | 70-135 | 01.31.20 14.33 |      |
| o-Terphenyl    | 84-15-1    | 75         | %     | 70-135 | 01.31.20 14.33 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-28 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-083

Date Collected: 01.27.20 14.16

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.04       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 100               | %            | 70-130        | 02.01.20 06.04       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 02.01.20 06.04       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-2 (1')  
Lab Sample Id: 650797-084

Matrix: Soil  
Date Collected: 01.28.20 09.51

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 479    | 5.02 | mg/kg | 01.31.20 13.42 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 6380   | 250 | mg/kg | 01.31.20 14.52 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 16000  | 250 | mg/kg | 01.31.20 14.52 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1930   | 250 | mg/kg | 01.31.20 14.52 |      | 5   |
| Total TPH                          | PHC635     | 24300  | 250 | mg/kg | 01.31.20 14.52 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 117        | %     | 70-135 | 01.31.20 14.52 |      |
| o-Terphenyl    | 84-15-1    | 126        | %     | 70-135 | 01.31.20 14.52 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-2 (1')  
Lab Sample Id: 650797-084

Matrix: Soil  
Date Collected: 01.28.20 09.51

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>10.7</b>       | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>257</b>        | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>244</b>        | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>428</b>        | 4.35         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>163</b>        | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>591</b>        | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>1100</b>       | 2.17         | mg/kg         | 02.01.20 15.35       |             | 100 |
| <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        | 02.01.20 15.35       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 94                | %            | 70-130        | 02.01.20 15.35       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-2 (3')  
 Lab Sample Id: 650797-085

Matrix: Soil  
 Date Collected: 01.28.20 09.52

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 32.0   | 4.96 | mg/kg | 01.31.20 14.02 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 01.31.20 15.10 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 77.0   | 49.8 | mg/kg | 01.31.20 15.10 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 01.31.20 15.10 | U    | 1   |
| Total TPH                          | PHC635     | 77.0   | 49.8 | mg/kg | 01.31.20 15.10 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 74         | %     | 70-135 | 01.31.20 15.10 |      |
| o-Terphenyl    | 84-15-1    | 74         | %     | 70-135 | 01.31.20 15.10 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-2 (3')  
Lab Sample Id: 650797-085

Matrix: Soil  
Date Collected: 01.28.20 09.52

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.01.20 06.24       | U           | 1   |
| <b>Toluene</b>       | 108-88-3          | <b>0.00256</b>    | 0.00200      | mg/kg         | 02.01.20 06.24       |             | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.00558</b>    | 0.00200      | mg/kg         | 02.01.20 06.24       |             | 1   |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.0142</b>     | 0.00400      | mg/kg         | 02.01.20 06.24       |             | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.00733</b>    | 0.00200      | mg/kg         | 02.01.20 06.24       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.0215</b>     | 0.00200      | mg/kg         | 02.01.20 06.24       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.0297</b>     | 0.00200      | mg/kg         | 02.01.20 06.24       |             | 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          | 96                | %            | 70-130        | 02.01.20 06.24       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 108               | %            | 70-130        | 02.01.20 06.24       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-2 (5')  
Lab Sample Id: 650797-086

Matrix: Soil  
Date Collected: 01.28.20 10.15

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <4.97  | 4.97 | mg/kg | 01.31.20 14.08 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 15.29 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 15.29 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 15.29 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 15.29 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 88         | %     | 70-135 | 01.31.20 15.29 |      |
| o-Terphenyl    | 84-15-1    | 89         | %     | 70-135 | 01.31.20 15.29 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-2 (5')  
Lab Sample Id: 650797-086

Matrix: Soil  
Date Collected: 01.28.20 10.15

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.01.20 06.44       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 02.01.20 06.44       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 02.01.20 06.44       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-2 (10')  
Lab Sample Id: 650797-087

Matrix: Soil  
Date Collected: 01.24.20 10.16

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 80.2   | 4.99 | mg/kg | 01.31.20 14.15 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 17.26       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 17.26       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 17.26       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 17.26       | 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          | 75                | %            | 70-135        | 01.31.20 17.26       |             |     |
| o-Terphenyl                        | 84-15-1           | 75                | %            | 70-135        | 01.31.20 17.26       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-2 (10')  
 Lab Sample Id: 650797-087

Matrix: Soil  
 Date Collected: 01.24.20 10.16

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.01.20 01.38       | 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          | 91                | %            | 70-130        | 02.01.20 01.38       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 02.01.20 01.38       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-4 (1')  
Lab Sample Id: 650797-088

Matrix: Soil  
Date Collected: 01.28.20 10.20

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 3280   | 24.8 | mg/kg | 01.31.20 14.22 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1530       | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 8930       | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1060       | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Total TPH                          | PHC635     | 11500      | 250   | mg/kg  | 01.31.20 17.45 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 121        | %     | 70-135 | 01.31.20 17.45 |      |     |
| o-Terphenyl                        | 84-15-1    | 107        | %     | 70-135 | 01.31.20 17.45 |      |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-4 (1')  
Lab Sample Id: 650797-088

Matrix: Soil  
Date Collected: 01.28.20 10.20

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0250           | 0.0250       | mg/kg         | 02.01.20 15.56       | U           | 50  |
| <b>Toluene</b>       | 108-88-3          | <b>0.899</b>      | 0.0998       | mg/kg         | 02.01.20 15.56       |             | 50  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>1.21</b>       | 0.0998       | mg/kg         | 02.01.20 15.56       |             | 50  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>8.40</b>       | 0.200        | mg/kg         | 02.01.20 15.56       |             | 50  |
| <b>o-Xylene</b>      | 95-47-6           | <b>3.35</b>       | 0.0998       | mg/kg         | 02.01.20 15.56       |             | 50  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>11.8</b>       | 0.0998       | mg/kg         | 02.01.20 15.56       |             | 50  |
| <b>Total BTEX</b>    |                   | <b>13.9</b>       | 0.0250       | mg/kg         | 02.01.20 15.56       |             | 50  |
| <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          | 104               | %            | 70-130        | 02.01.20 15.56       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 101               | %            | 70-130        | 02.01.20 15.56       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-4 (3')  
Lab Sample Id: 650797-089

Matrix: Soil  
Date Collected: 01.28.20 10.21

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 4750   | 25.1 | mg/kg | 01.31.20 14.28 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.01.20 09.02 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.01.20 09.02 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.01.20 09.02 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.01.20 09.02 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 78         | %     | 70-135 | 02.01.20 09.02 |      |
| o-Terphenyl    | 84-15-1    | 78         | %     | 70-135 | 02.01.20 09.02 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-4 (3')  
Lab Sample Id: 650797-089

Matrix: Soil  
Date Collected: 01.28.20 10.21

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number  | Result     | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | 0.00245    | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| Toluene              | 108-88-3    | 0.0124     | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| Ethylbenzene         | 100-41-4    | 0.00362    | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| m,p-Xylenes          | 179601-23-1 | 0.0132     | 0.00398 | mg/kg | 02.01.20 07.05 |                | 1    |
| o-Xylene             | 95-47-6     | 0.00637    | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| Total Xylenes        | 1330-20-7   | 0.0196     | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| Total BTEX           |             | 0.0380     | 0.00199 | mg/kg | 02.01.20 07.05 |                | 1    |
| Surrogate            | Cas Number  | % Recovery |         | Units | Limits         | Analysis Date  | Flag |
| 1,4-Difluorobenzene  | 540-36-3    | 110        |         | %     | 70-130         | 02.01.20 07.05 |      |
| 4-Bromofluorobenzene | 460-00-4    | 98         |         | %     | 70-130         | 02.01.20 07.05 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-4 (5')  
Lab Sample Id: 650797-090

Matrix: Soil  
Date Collected: 01.28.20 10.30

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 108    | 5.00 | mg/kg | 01.31.20 14.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 18.22 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 01.31.20 18.22 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 01.31.20 18.22 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 01.31.20 18.22 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 77         | %     | 70-135 | 01.31.20 18.22 |      |
| o-Terphenyl    | 84-15-1    | 77         | %     | 70-135 | 01.31.20 18.22 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-4 (5')  
Lab Sample Id: 650797-090

Matrix: Soil  
Date Collected: 01.28.20 10.30

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.25       | 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          | 100               | %            | 70-130        | 02.01.20 07.25       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 110               | %            | 70-130        | 02.01.20 07.25       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: **S-4 (10')**  
Lab Sample Id: 650797-091

Matrix: Soil  
Date Collected: 01.28.20 10.31

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.31.20 12.00

Basis: Wet Weight

Seq Number: 3115214

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 125    | 4.96 | mg/kg | 01.31.20 14.55 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 01.31.20 19.00 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 01.31.20 19.00 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 01.31.20 19.00 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 01.31.20 19.00 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 77         | %     | 70-135 | 01.31.20 19.00 |      |
| o-Terphenyl    | 84-15-1    | 77         | %     | 70-135 | 01.31.20 19.00 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: **S-4 (10')**  
 Lab Sample Id: 650797-091

Matrix: Soil  
 Date Collected: 01.28.20 10.31

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115243

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.01.20 07.46       | 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          | 110               | %            | 70-130        | 02.01.20 07.46       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 101               | %            | 70-130        | 02.01.20 07.46       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-31 (1')  
Lab Sample Id: 650797-092

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1780   | 25.1 | mg/kg | 02.02.20 14.02 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2080   | 249 | mg/kg | 01.31.20 19.18 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 19900  | 249 | mg/kg | 01.31.20 19.18 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2460   | 249 | mg/kg | 01.31.20 19.18 |      | 5   |
| Total TPH                          | PHC635     | 24400  | 249 | mg/kg | 01.31.20 19.18 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 120        | %     | 70-135 | 01.31.20 19.18 |      |
| o-Terphenyl    | 84-15-1    | 90         | %     | 70-135 | 01.31.20 19.18 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-31 (1')  
Lab Sample Id: 650797-092

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| <b>Benzene</b>       | 71-43-2           | <b>0.0257</b>     | 0.0200       | mg/kg         | 02.06.20 15.45       |             | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>1.95</b>       | 0.0200       | mg/kg         | 02.06.20 15.45       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.72</b>       | 0.200        | mg/kg         | 02.07.20 14.09       | D           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>21.1</b>       | 0.399        | mg/kg         | 02.07.20 14.09       | D           | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>10.0</b>       | 0.200        | mg/kg         | 02.07.20 14.09       | D           | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>31.1</b>       | 0.200        | mg/kg         | 02.07.20 14.09       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>39.8</b>       | 0.0200       | mg/kg         | 02.07.20 14.09       |             | 100 |
| <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          | 987               | %            | 70-130        | 02.06.20 15.45       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 97                | %            | 70-130        | 02.06.20 15.45       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-31 (3')  
Lab Sample Id: 650797-093

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115228

Prep Method: E300P

% Moisture:

Date Prep: 02.02.20 11.45

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 165    | 4.97 | mg/kg | 02.02.20 13.42 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115315

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 10.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 971        | 250   | mg/kg  | 01.31.20 19.37 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 4640       | 250   | mg/kg  | 01.31.20 19.37 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 525        | 250   | mg/kg  | 01.31.20 19.37 |      | 5   |
| Total TPH                          | PHC635     | 6140       | 250   | mg/kg  | 01.31.20 19.37 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 128        | %     | 70-135 | 01.31.20 19.37 |      |     |
| o-Terphenyl                        | 84-15-1    | 128        | %     | 70-135 | 01.31.20 19.37 |      |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-31 (3')  
Lab Sample Id: 650797-093

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0201           | 0.0201       | mg/kg         | 02.06.20 16.05       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.777</b>      | 0.0201       | mg/kg         | 02.06.20 16.05       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>4.93</b>       | 0.201        | mg/kg         | 02.07.20 14.29       | D           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>12.4</b>       | 0.402        | mg/kg         | 02.07.20 14.29       | D           | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>6.56</b>       | 0.201        | mg/kg         | 02.07.20 14.29       | D           | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>19.0</b>       | 0.201        | mg/kg         | 02.07.20 14.29       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>24.7</b>       | 0.0201       | mg/kg         | 02.07.20 14.29       |             | 100 |
| <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          | 1020              | %            | 70-130        | 02.06.20 16.05       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 02.06.20 16.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-31 (5')  
Lab Sample Id: 650797-094

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 6.34   | 5.03 | mg/kg | 02.02.20 14.09 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.56       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 19.56       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 19.56       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 19.56       | 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          | 79                | %            | 70-135        | 01.31.20 19.56       |             |     |
| o-Terphenyl                        | 84-15-1           | 80                | %            | 70-135        | 01.31.20 19.56       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-31 (5')  
Lab Sample Id: 650797-094

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number  | Result     | RL      | Units | Analysis Date  | Flag           | Dil  |
|----------------------|-------------|------------|---------|-------|----------------|----------------|------|
| Benzene              | 71-43-2     | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| Toluene              | 108-88-3    | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| Ethylbenzene         | 100-41-4    | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| m,p-Xylenes          | 179601-23-1 | <0.00404   | 0.00404 | mg/kg | 02.06.20 11.45 | U              | 1    |
| o-Xylene             | 95-47-6     | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| Total Xylenes        | 1330-20-7   | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| Total BTEX           |             | <0.00202   | 0.00202 | mg/kg | 02.06.20 11.45 | U              | 1    |
| Surrogate            | Cas Number  | % Recovery |         | Units | Limits         | Analysis Date  | Flag |
| 4-Bromofluorobenzene | 460-00-4    | 79         |         | %     | 70-130         | 02.06.20 11.45 |      |
| 1,4-Difluorobenzene  | 540-36-3    | 109        |         | %     | 70-130         | 02.06.20 11.45 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-31 (10')  
Lab Sample Id: 650797-095

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 27.8   | 4.98 | mg/kg | 02.02.20 15.15 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 01.31.20 20.14       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 01.31.20 20.14       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 01.31.20 20.14       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 01.31.20 20.14       | 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> |     |
| 1-Chlorooctane                     | 111-85-3          | 78                | %            | 70-135        | 01.31.20 20.14       |             |     |
| o-Terphenyl                        | 84-15-1           | 78                | %            | 70-135        | 01.31.20 20.14       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-31 (10')  
Lab Sample Id: 650797-095

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.05       | 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          | 74                | %            | 70-130        | 02.06.20 12.05       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 02.06.20 12.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-32 (1')  
Lab Sample Id: 650797-096

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 2070   | 25.2 | mg/kg | 02.02.20 16.15 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2140   | 250 | mg/kg | 01.31.20 20.33 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 14400  | 250 | mg/kg | 01.31.20 20.33 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1640   | 250 | mg/kg | 01.31.20 20.33 |      | 5   |
| Total TPH                          | PHC635     | 18200  | 250 | mg/kg | 01.31.20 20.33 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 111        | %     | 70-135 | 01.31.20 20.33 |      |
| o-Terphenyl    | 84-15-1    | 114        | %     | 70-135 | 01.31.20 20.33 |      |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-32 (1')  
Lab Sample Id: 650797-096

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.06.20 16.25       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>1.95</b>       | 0.0199       | mg/kg         | 02.06.20 16.25       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.99</b>       | 0.199        | mg/kg         | 02.07.20 14.49       | D           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>19.8</b>       | 0.398        | mg/kg         | 02.07.20 14.49       | D           | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>9.55</b>       | 0.199        | mg/kg         | 02.07.20 14.49       | D           | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>29.4</b>       | 0.199        | mg/kg         | 02.07.20 14.49       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>38.3</b>       | 0.0199       | mg/kg         | 02.07.20 14.49       |             | 100 |
| <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          | 1153              | %            | 70-130        | 02.06.20 16.25       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 90                | %            | 70-130        | 02.06.20 16.25       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-32 (3')  
Lab Sample Id: 650797-097

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 554    | 4.98 | mg/kg | 02.02.20 16.22 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 01.31.20 20.52 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 485    | 49.9 | mg/kg | 01.31.20 20.52 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 64.3   | 49.9 | mg/kg | 01.31.20 20.52 |      | 1   |
| Total TPH                          | PHC635     | 549    | 49.9 | mg/kg | 01.31.20 20.52 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 80         | %     | 70-135 | 01.31.20 20.52 |      |
| o-Terphenyl    | 84-15-1    | 92         | %     | 70-135 | 01.31.20 20.52 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-32 (3')  
Lab Sample Id: 650797-097

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.06.20 16.45       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.368</b>      | 0.0200       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.185</b>      | 0.0200       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.284</b>      | 0.0400       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.378</b>      | 0.0200       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.662</b>      | 0.0200       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>1.22</b>       | 0.0200       | mg/kg         | 02.06.20 16.45       |             | 10  |
| <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          | 77                | %            | 70-130        | 02.06.20 16.45       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 143               | %            | 70-130        | 02.06.20 16.45       | **          |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-32 (5')  
Lab Sample Id: 650797-098

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.00  | 5.00 | mg/kg | 02.02.20 16.28 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 01.31.20 21.12 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 01.31.20 21.12 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 01.31.20 21.12 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 01.31.20 21.12 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 77         | %     | 70-135 | 01.31.20 21.12 |      |
| o-Terphenyl    | 84-15-1    | 78         | %     | 70-135 | 01.31.20 21.12 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-32 (5')  
 Lab Sample Id: 650797-098

Matrix: Soil  
 Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.06.20 12.25       | 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          | 113               | %            | 70-130        | 02.06.20 12.25       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 75                | %            | 70-130        | 02.06.20 12.25       |             |     |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-33 (1')  
Lab Sample Id: 650797-099

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 484    | 5.04 | mg/kg | 02.02.20 16.35 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <250              | 250          | mg/kg         | 01.31.20 21.31       | U           | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO         | 2860              | 250          | mg/kg         | 01.31.20 21.31       |             | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | 365               | 250          | mg/kg         | 01.31.20 21.31       |             | 5   |
| Total TPH                          | PHC635            | 3230              | 250          | mg/kg         | 01.31.20 21.31       |             | 5   |
| <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          | 93                | %            | 70-135        | 01.31.20 21.31       |             |     |
| o-Terphenyl                        | 84-15-1           | 121               | %            | 70-135        | 01.31.20 21.31       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-33 (1')  
Lab Sample Id: 650797-099

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.06.20 17.05       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.0830</b>     | 0.0200       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.576</b>      | 0.0200       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>1.98</b>       | 0.0401       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>1.13</b>       | 0.0200       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>3.11</b>       | 0.0200       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>3.77</b>       | 0.0200       | mg/kg         | 02.06.20 17.05       |             | 10  |
| <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          | 212               | %            | 70-130        | 02.06.20 17.05       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 92                | %            | 70-130        | 02.06.20 17.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-33 (3')  
Lab Sample Id: 650797-100

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 11.45

Basis: Wet Weight

Seq Number: 3115228

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 8.24   | 5.05 | mg/kg | 02.02.20 16.42 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 10.00

Basis: Wet Weight

Seq Number: 3115315

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 01.31.20 21.50       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 01.31.20 21.50       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 01.31.20 21.50       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 01.31.20 21.50       | 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> |     |
| 1-Chlorooctane                     | 111-85-3          | 90                | %            | 70-135        | 01.31.20 21.50       |             |     |
| o-Terphenyl                        | 84-15-1           | 91                | %            | 70-135        | 01.31.20 21.50       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-33 (3')  
 Lab Sample Id: 650797-100

Matrix: Soil  
 Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.06.20 12.45       | 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          | 109               | %            | 70-130        | 02.06.20 12.45       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 88                | %            | 70-130        | 02.06.20 12.45       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-33 (5')  
Lab Sample Id: 650797-101

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 12.30

Basis: Wet Weight

Seq Number: 3115229

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.01  | 5.01 | mg/kg | 02.02.20 13.20 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 13.00

Basis: Wet Weight

Seq Number: 3115317

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.01.20 00.44 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.01.20 00.44 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.01.20 00.44 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.01.20 00.44 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 76         | %     | 70-135 | 02.01.20 00.44 |      |
| o-Terphenyl    | 84-15-1    | 77         | %     | 70-135 | 02.01.20 00.44 |      |



# Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-33 (5')  
 Lab Sample Id: 650797-101

Matrix: Soil  
 Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 02.06.20 13.05       | 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          | 113               | %            | 70-130        | 02.06.20 13.05       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 75                | %            | 70-130        | 02.06.20 13.05       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-33 (10')  
Lab Sample Id: 650797-102

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 12.30

Basis: Wet Weight

Seq Number: 3115229

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.02  | 5.02 | mg/kg | 02.02.20 13.40 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 13.00

Basis: Wet Weight

Seq Number: 3115317

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.01.20 01.03 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.01.20 01.03 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.01.20 01.03 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.01.20 01.03 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 72         | %     | 70-135 | 02.01.20 01.03 |      |
| o-Terphenyl    | 84-15-1    | 72         | %     | 70-135 | 02.01.20 01.03 |      |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-33 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650797-102

Date Collected: 01.28.20 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | U           | 1   |
| Total BTEX           |                   | <0.00198          | 0.00198      | mg/kg         | 02.06.20 14.24       | 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          | 69                | %            | 70-130        | 02.06.20 14.24       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 02.06.20 14.24       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-34 (1')  
Lab Sample Id: 650797-103

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 12.30

Basis: Wet Weight

Seq Number: 3115229

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 239    | 4.98 | mg/kg | 02.02.20 13.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 13.00

Basis: Wet Weight

Seq Number: 3115317

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <250   | 250 | mg/kg | 02.01.20 01.22 | U    | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 2700   | 250 | mg/kg | 02.01.20 01.22 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 358    | 250 | mg/kg | 02.01.20 01.22 |      | 5   |
| Total TPH                          | PHC635     | 3060   | 250 | mg/kg | 02.01.20 01.22 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 93         | %     | 70-135 | 02.01.20 01.22 |      |
| o-Terphenyl    | 84-15-1    | 112        | %     | 70-135 | 02.01.20 01.22 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-34 (1')  
Lab Sample Id: 650797-103

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.06.20 17.25       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.122</b>      | 0.0200       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.0342</b>     | 0.0200       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.105</b>      | 0.0399       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.265</b>      | 0.0200       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.370</b>      | 0.0200       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>0.526</b>      | 0.0200       | mg/kg         | 02.06.20 17.25       |             | 10  |
| <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          | 175               | %            | 70-130        | 02.06.20 17.25       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 70-130        | 02.06.20 17.25       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-34 (3')  
Lab Sample Id: 650797-104

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3115229

Prep Method: E300P

% Moisture:

Date Prep: 02.02.20 12.30

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 12.0   | 5.05 | mg/kg | 02.02.20 13.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115317

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 13.00

Basis: Wet Weight

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.01.20 01.41       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.01.20 01.41       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.01.20 01.41       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.01.20 01.41       | 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          | 87                | %            | 70-135        | 02.01.20 01.41       |             |     |
| o-Terphenyl                        | 84-15-1           | 88                | %            | 70-135        | 02.01.20 01.41       |             |     |





## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-34 (3')  
Lab Sample Id: 650797-104

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.06.20 14.44       | 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          | 77                | %            | 70-130        | 02.06.20 14.44       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 111               | %            | 70-130        | 02.06.20 14.44       |             |     |



# Certificate of Analytical Results 650797



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

Blineberry Sat.1

Sample Id: S-34 (5')  
Lab Sample Id: 650797-105

Matrix: Soil  
Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 02.02.20 12.30

Basis: Wet Weight

Seq Number: 3115229

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | <5.03  | 5.03 | mg/kg | 02.02.20 14.00 | U    | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 13.00

Basis: Wet Weight

Seq Number: 3115317

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.01.20 02.00 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.01.20 02.00 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.01.20 02.00 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.01.20 02.00 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 02.01.20 02.00 |      |
| o-Terphenyl    | 84-15-1    | 86         | %     | 70-135 | 02.01.20 02.00 |      |



## Certificate of Analytical Results 650797

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

Blineberry Sat.1

Sample Id: S-34 (5')  
 Lab Sample Id: 650797-105

Matrix: Soil  
 Date Collected: 01.28.20 00.00

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.06.20 09.00

Basis: Wet Weight

Seq Number: 3115856

NO\_CERT#

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.06.20 15.04       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 79                | %            | 70-130        | 02.06.20 15.04       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 115               | %            | 70-130        | 02.06.20 15.04       |             |     |



## 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.

**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.**  
Blineberry Sat.1

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

MB Sample Id: 7695620-1-BLK

Matrix: Solid

LCS Sample Id: 7695620-1-BKS

Prep Method: E300P

Date Prep: 01.30.20

LCSD Sample Id: 7695620-1-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          | 263        | 105      | 262         | 105       | 90-110 | 0    | 20        | mg/kg | 01.30.20 22:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115062

MB Sample Id: 7695625-1-BLK

Matrix: Solid

LCS Sample Id: 7695625-1-BKS

Prep Method: E300P

Date Prep: 01.30.20

LCSD Sample Id: 7695625-1-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          | 227        | 91       | 230         | 92        | 90-110 | 1    | 20        | mg/kg | 01.30.20 17:45 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115061

MB Sample Id: 7695628-1-BLK

Matrix: Solid

LCS Sample Id: 7695628-1-BKS

Prep Method: E300P

Date Prep: 01.30.20

LCSD Sample Id: 7695628-1-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          | 258        | 103      | 257         | 103       | 90-110 | 0    | 20        | mg/kg | 01.30.20 21:25 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115209

MB Sample Id: 7695685-1-BLK

Matrix: Solid

LCS Sample Id: 7695685-1-BKS

Prep Method: E300P

Date Prep: 01.31.20

LCSD Sample Id: 7695685-1-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          | 252        | 101      | 252         | 101       | 90-110 | 0    | 20        | mg/kg | 01.31.20 08:47 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115213

MB Sample Id: 7695686-1-BLK

Matrix: Solid

LCS Sample Id: 7695686-1-BKS

Prep Method: E300P

Date Prep: 01.31.20

LCSD Sample Id: 7695686-1-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          | 258        | 103      | 253         | 101       | 90-110 | 2    | 20        | mg/kg | 01.31.20 09:37 |      |

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



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**Analytical Method: Chloride by EPA 300**

Seq Number: 3115214

MB Sample Id: 7695687-1-BLK

Matrix: Solid

LCS Sample Id: 7695687-1-BKS

Prep Method: E300P

Date Prep: 01.31.20

LCSD Sample Id: 7695687-1-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          | 260        | 104      | 260         | 104       | 90-110 | 0    | 20        | mg/kg | 01.31.20 12:49 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115228

MB Sample Id: 7695761-1-BLK

Matrix: Solid

LCS Sample Id: 7695761-1-BKS

Prep Method: E300P

Date Prep: 02.02.20

LCSD Sample Id: 7695761-1-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      | 253         | 101       | 90-110 | 1    | 20        | mg/kg | 02.02.20 13:29 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115229

MB Sample Id: 7695762-1-BLK

Matrix: Solid

LCS Sample Id: 7695762-1-BKS

Prep Method: E300P

Date Prep: 02.02.20

LCSD Sample Id: 7695762-1-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          | 257        | 103      | 258         | 103       | 90-110 | 0    | 20        | mg/kg | 02.02.20 13:07 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

Parent Sample Id: 650799-010

Matrix: Soil

MS Sample Id: 650799-010 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650799-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 11.7          | 248          | 192       | 73      | 191        | 72       | 90-110 | 1    | 20        | mg/kg | 01.30.20 22:21 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

Parent Sample Id: 650799-019

Matrix: Soil

MS Sample Id: 650799-019 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650799-019 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          | 250          | 300       | 111     | 297        | 110      | 90-110 | 1    | 20        | mg/kg | 01.30.20 23:54 | 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



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**Analytical Method: Chloride by EPA 300**

Seq Number: 3115062

Parent Sample Id: 650797-004

Matrix: Soil

MS Sample Id: 650797-004 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650797-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 91.8          | 248          | 339       | 100     | 327        | 95       | 90-110 | 4    | 20        | mg/kg | 01.30.20 18:05 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115062

Parent Sample Id: 650797-015

Matrix: Soil

MS Sample Id: 650797-015 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650797-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 26.8          | 248          | 302       | 111     | 294        | 108      | 90-110 | 3    | 20        | mg/kg | 01.30.20 19:38 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115061

Parent Sample Id: 650797-030

Matrix: Soil

MS Sample Id: 650797-030 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650797-030 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 8.47          | 250          | 285       | 111     | 281        | 109      | 90-110 | 1    | 20        | mg/kg | 01.30.20 23:18 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115061

Parent Sample Id: 650914-001

Matrix: Soil

MS Sample Id: 650914-001 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650914-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | <4.95         | 248          | 282       | 114     | 272        | 110      | 90-110 | 4    | 20        | mg/kg | 01.30.20 21:44 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115209

Parent Sample Id: 650797-040

Matrix: Soil

MS Sample Id: 650797-040 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-040 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 34.6          | 252          | 307       | 108     | 303        | 107      | 90-110 | 1    | 20        | mg/kg | 01.31.20 09:11 |      |

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



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**Analytical Method: Chloride by EPA 300**

Seq Number: 3115209

Parent Sample Id: 650797-050

Matrix: Soil

MS Sample Id: 650797-050 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-050 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 10.8          | 250          | 283       | 109     | 283        | 109      | 90-110 | 0    | 20        | mg/kg | 01.31.20 10:51 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115213

Parent Sample Id: 650797-060

Matrix: Soil

MS Sample Id: 650797-060 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-060 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 53.4          | 253          | 332       | 110     | 330        | 109      | 90-110 | 1    | 20        | mg/kg | 01.31.20 09:57 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115213

Parent Sample Id: 650797-070

Matrix: Soil

MS Sample Id: 650797-070 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-070 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 11.2          | 250          | 286       | 110     | 286        | 110      | 90-110 | 0    | 20        | mg/kg | 01.31.20 11:45 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115214

Parent Sample Id: 650797-080

Matrix: Soil

MS Sample Id: 650797-080 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-080 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 63.7          | 252          | 344       | 111     | 340        | 110      | 90-110 | 1    | 20        | mg/kg | 01.31.20 13:09 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115214

Parent Sample Id: 650797-090

Matrix: Soil

MS Sample Id: 650797-090 S

Prep Method: E300P

Date Prep: 01.31.20

MSD Sample Id: 650797-090 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 108           | 250          | 382       | 110     | 379        | 108      | 90-110 | 1    | 20        | mg/kg | 01.31.20 14:42 |      |

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





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**Analytical Method: Chloride by EPA 300**

Seq Number: 3115228

Parent Sample Id: 650797-093

Matrix: Soil

MS Sample Id: 650797-093 S

Prep Method: E300P

Date Prep: 02.02.20

MSD Sample Id: 650797-093 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 165           | 249          | 417       | 101     | 417        | 101      | 90-110 | 0    | 20        | mg/kg | 02.02.20 13:49 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115229

Parent Sample Id: 650797-101

Matrix: Soil

MS Sample Id: 650797-101 S

Prep Method: E300P

Date Prep: 02.02.20

MSD Sample Id: 650797-101 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 2.84          | 251          | 269       | 106     | 266        | 105      | 90-110 | 1    | 20        | mg/kg | 02.02.20 13:27 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115229

Parent Sample Id: 650921-006

Matrix: Soil

MS Sample Id: 650921-006 S

Prep Method: E300P

Date Prep: 02.02.20

MSD Sample Id: 650921-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 47.7          | 250          | 324       | 111     | 328        | 112      | 90-110 | 1    | 20        | mg/kg | 02.02.20 15:00 | X    |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115319

MB Sample Id: 7695783-1-BLK

Matrix: Solid

LCS Sample Id: 7695783-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695783-1-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) | <15.0     | 1000         | 872        | 87       | 870         | 87        | 70-135 | 0    | 20        | mg/kg | 01.31.20 11:47 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 870        | 87       | 831         | 83        | 70-135 | 5    | 20        | mg/kg | 01.31.20 11:47 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 89      |         | 100      |          | 102       |           | 70-135 | %     | 01.31.20 11:47 |
| o-Terphenyl    | 92      |         | 97       |          | 106       |           | 70-135 | %     | 01.31.20 11:47 |

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



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**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115315

MB Sample Id: 7695778-1-BLK

Matrix: Solid

LCS Sample Id: 7695778-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695778-1-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) | <15.0     | 1000         | 945        | 95       | 1080        | 108       | 70-135 | 13    | 20             | mg/kg | 01.31.20 12:39 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 934        | 93       | 1060        | 106       | 70-135 | 13    | 20             | mg/kg | 01.31.20 12:39 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    | 80        |              | 110        |          | 125         |           | 70-135 | %     | 01.31.20 12:39 |       |                |      |
| o-Terphenyl                       | 81        |              | 97         |          | 107         |           | 70-135 | %     | 01.31.20 12:39 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115329

MB Sample Id: 7695788-1-BLK

Matrix: Solid

LCS Sample Id: 7695788-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695788-1-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) | <15.0     | 1000         | 829        | 83       | 809         | 81        | 70-135 | 2     | 20             | mg/kg | 01.31.20 11:47 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 833        | 83       | 801         | 80        | 70-135 | 4     | 20             | mg/kg | 01.31.20 11:47 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    | 90        |              | 100        |          | 109         |           | 70-135 | %     | 01.31.20 11:47 |       |                |      |
| o-Terphenyl                       | 88        |              | 99         |          | 99          |           | 70-135 | %     | 01.31.20 11:47 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115317

MB Sample Id: 7695782-1-BLK

Matrix: Solid

LCS Sample Id: 7695782-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695782-1-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) | <15.0     | 1000         | 1090       | 109      | 1140        | 114       | 70-135 | 4     | 20             | mg/kg | 01.31.20 22:48 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 1080       | 108      | 1140        | 114       | 70-135 | 5     | 20             | mg/kg | 01.31.20 22:48 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  |       |                |      |
| 1-Chlorooctane                    | 81        |              | 118        |          | 119         |           | 70-135 | %     | 01.31.20 22:48 |       |                |      |
| o-Terphenyl                       | 83        |              | 107        |          | 115         |           | 70-135 | %     | 01.31.20 22:48 |       |                |      |

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.**  
Blineberry Sat.1

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115320

MB Sample Id: 7695784-1-BLK

Matrix: Solid

LCS Sample Id: 7695784-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695784-1-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) | <15.0     | 1000         | 1030       | 103      | 1140        | 114       | 70-135 | 10    | 20             | mg/kg | 01.31.20 21:14 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 962        | 96       | 1170        | 117       | 70-135 | 20    | 20             | mg/kg | 01.31.20 21:14 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  | Flag  |                |      |
| 1-Chlorooctane                    | 105       |              | 120        |          | 128         |           | 70-135 | %     | 01.31.20 21:14 |       |                |      |
| o-Terphenyl                       | 104       |              | 115        |          | 124         |           | 70-135 | %     | 01.31.20 21:14 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115325

MB Sample Id: 7695785-1-BLK

Matrix: Solid

LCS Sample Id: 7695785-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695785-1-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) | <15.0     | 1000         | 819        | 82       | 856         | 86        | 70-135 | 4     | 20             | mg/kg | 01.31.20 21:14 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 832        | 83       | 883         | 88        | 70-135 | 6     | 20             | mg/kg | 01.31.20 21:14 |      |
| Surrogate                         | MB %Rec   | MB Flag      | LCS %Rec   | LCS Flag | LCSD %Rec   | LCSD Flag | Limits | Units | Analysis Date  | Flag  |                |      |
| 1-Chlorooctane                    | 92        |              | 100        |          | 117         |           | 70-135 | %     | 01.31.20 21:14 |       |                |      |
| o-Terphenyl                       | 93        |              | 102        |          | 106         |           | 70-135 | %     | 01.31.20 21:14 |       |                |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115319

Matrix: Solid

MB Sample Id: 7695783-1-BLK

Prep Method: SW8015P

Date Prep: 01.31.20

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 01.31.20 11:25 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115315

Matrix: Solid

MB Sample Id: 7695778-1-BLK

Prep Method: SW8015P

Date Prep: 01.31.20

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 01.31.20 12:20 |      |

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.

Blineberry Sat.1

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115329

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.31.20

MB Sample Id: 7695788-1-BLK

## Parameter

MB  
Result

Units

Analysis  
Date

Flag

Motor Oil Range Hydrocarbons (MRO)

&lt;50.0

mg/kg

01.31.20 11:25

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115317

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.31.20

MB Sample Id: 7695782-1-BLK

## Parameter

MB  
Result

Units

Analysis  
Date

Flag

Motor Oil Range Hydrocarbons (MRO)

&lt;50.0

mg/kg

01.31.20 22:29

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115320

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.31.20

MB Sample Id: 7695784-1-BLK

## Parameter

MB  
Result

Units

Analysis  
Date

Flag

Motor Oil Range Hydrocarbons (MRO)

&lt;50.0

mg/kg

01.31.20 20:53

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115325

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.31.20

MB Sample Id: 7695785-1-BLK

## Parameter

MB  
Result

Units

Analysis  
Date

Flag

Motor Oil Range Hydrocarbons (MRO)

&lt;50.0

mg/kg

01.31.20 20:53

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115319

Matrix: Soil

Prep Method: SW8015P

Date Prep: 01.31.20

Parent Sample Id: 650797-002

MS Sample Id: 650797-002 S

MSD Sample Id: 650797-002 SD

## Parameter

Parent  
ResultSpike  
AmountMS  
ResultMS  
%RecMSD  
ResultMSD  
%Rec

Limits

%RPD

RPD Limit

Units

Analysis  
Date

Flag

Gasoline Range Hydrocarbons (GRO)

22.5

997

952

93

925

90

70-135

3

20

mg/kg

01.31.20 12:51

Diesel Range Organics (DRO)

75.8

997

966

89

945

87

70-135

2

20

mg/kg

01.31.20 12:51

## Surrogate

MS  
%RecMS  
FlagMSD  
%RecMSD  
Flag

Limits

Units

Analysis  
Date

1-Chlorooctane

97

92

70-135

%

01.31.20 12:51

o-Terphenyl

101

96

70-135

%

01.31.20 12:51

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



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Blineberry Sat.1

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115315

Parent Sample Id: 650797-081

Matrix: Soil

MS Sample Id: 650797-081 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650797-081 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) | <15.0         | 999          | 956       | 96      | 892        | 89       | 70-135 | 7    | 20        | mg/kg | 01.31.20 13:36 |      |
| Diesel Range Organics (DRO)       | 58.8          | 999          | 916       | 86      | 863        | 81       | 70-135 | 6    | 20        | mg/kg | 01.31.20 13:36 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 102     |         | 96       |          | 70-135 | %     | 01.31.20 13:36 |
| o-Terphenyl    | 95      |         | 93       |          | 70-135 | %     | 01.31.20 13:36 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115329

Parent Sample Id: 650797-061

Matrix: Soil

MS Sample Id: 650797-061 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650797-061 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) | <15.0         | 997          | 775       | 78      | 777        | 78       | 70-135 | 0    | 20        | mg/kg | 01.31.20 12:51 |      |
| Diesel Range Organics (DRO)       | 50.7          | 997          | 867       | 82      | 899        | 85       | 70-135 | 4    | 20        | mg/kg | 01.31.20 12:51 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 89      |         | 103      |          | 70-135 | %     | 01.31.20 12:51 |
| o-Terphenyl    | 88      |         | 101      |          | 70-135 | %     | 01.31.20 12:51 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115317

Parent Sample Id: 650847-001

Matrix: Soil

MS Sample Id: 650847-001 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650847-001 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) | <15.0         | 998          | 884       | 89      | 915        | 92       | 70-135 | 3    | 20        | mg/kg | 01.31.20 23:46 |      |
| Diesel Range Organics (DRO)       | 56.3          | 998          | 938       | 88      | 961        | 91       | 70-135 | 2    | 20        | mg/kg | 01.31.20 23:46 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 99      |         | 103      |          | 70-135 | %     | 01.31.20 23:46 |
| o-Terphenyl    | 91      |         | 98       |          | 70-135 | %     | 01.31.20 23:46 |

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. =  $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

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



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## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115320

Parent Sample Id: 650797-022

Matrix: Soil

MS Sample Id: 650797-022 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650797-022 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 24.6          | 997          | 956       | 93      | 1100       | 108      | 70-135 | 14   | 20        | mg/kg | 01.31.20 22:17 |      |
| Diesel Range Organics (DRO)       | 25.0          | 997          | 1080      | 106     | 1100       | 108      | 70-135 | 2    | 20        | mg/kg | 01.31.20 22:17 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 112     |         | 117      |          | 70-135 | %     | 01.31.20 22:17 |
| o-Terphenyl    | 113     |         | 115      |          | 70-135 | %     | 01.31.20 22:17 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3115325

Parent Sample Id: 650797-042

Matrix: Soil

MS Sample Id: 650797-042 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650797-042 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) | 18.4          | 997          | 759       | 74      | 815        | 80       | 70-135 | 7    | 20        | mg/kg | 01.31.20 22:17 |      |
| Diesel Range Organics (DRO)       | 32.8          | 997          | 775       | 74      | 841        | 81       | 70-135 | 8    | 20        | mg/kg | 01.31.20 22:17 |      |

## Surrogate

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 89      |         | 97       |          | 70-135 | %     | 01.31.20 22:17 |
| o-Terphenyl    | 88      |         | 85       |          | 70-135 | %     | 01.31.20 22:17 |

## Analytical Method: BTEX by EPA 8021B

Seq Number: 3115239

MB Sample Id: 7695738-1-BLK

Matrix: Solid

LCS Sample Id: 7695738-1-BKS

Prep Method: SW5030B

Date Prep: 01.31.20

LCSD Sample Id: 7695738-1-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        | 0.119      | 119      | 0.120       | 120       | 70-130 | 1    | 35        | mg/kg | 01.31.20 13:09 |      |
| Toluene      | <0.00200  | 0.100        | 0.110      | 110      | 0.112       | 112       | 70-130 | 2    | 35        | mg/kg | 01.31.20 13:09 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.107      | 107      | 0.109       | 109       | 71-129 | 2    | 35        | mg/kg | 01.31.20 13:09 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.210      | 105      | 0.214       | 107       | 70-135 | 2    | 35        | mg/kg | 01.31.20 13:09 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.105      | 105      | 0.107       | 107       | 71-133 | 2    | 35        | mg/kg | 01.31.20 13:09 |      |

## Surrogate

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 109      |          | 109       |           | 70-130 | %     | 01.31.20 13:09 |
| 4-Bromofluorobenzene | 96      |         | 93       |          | 92        |           | 70-130 | %     | 01.31.20 13:09 |

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



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Blineberry Sat.1

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

Seq Number: 3115240

MB Sample Id: 7695740-1-BLK

Matrix: Solid

LCS Sample Id: 7695740-1-BKS

Prep Method: SW5030B

Date Prep: 01.31.20

LCSD Sample Id: 7695740-1-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      | 0.106       | 106       | 70-130 | 5    | 35        | mg/kg | 01.31.20 13:02 |      |
| Toluene      | <0.00200  | 0.100        | 0.0985     | 99       | 0.103       | 103       | 70-130 | 4    | 35        | mg/kg | 01.31.20 13:02 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0947     | 95       | 0.0998      | 100       | 71-129 | 5    | 35        | mg/kg | 01.31.20 13:02 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.195      | 98       | 0.205       | 103       | 70-135 | 5    | 35        | mg/kg | 01.31.20 13:02 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0977     | 98       | 0.103       | 103       | 71-133 | 5    | 35        | mg/kg | 01.31.20 13:02 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 103     |         | 103      |          | 104       |           | 70-130 | %     | 01.31.20 13:02 |
| 4-Bromofluorobenzene | 77      |         | 95       |          | 96        |           | 70-130 | %     | 01.31.20 13:02 |

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

Seq Number: 3115326

MB Sample Id: 7695806-1-BLK

Matrix: Solid

LCS Sample Id: 7695806-1-BKS

Prep Method: SW5030B

Date Prep: 01.31.20

LCSD Sample Id: 7695806-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.0200   | 2.00         | 1.98       | 99       | 1.91        | 96        | 55-120 | 4    | 20        | mg/kg | 01.31.20 22:53 |      |
| Toluene      | <0.0200   | 2.00         | 1.93       | 97       | 1.87        | 94        | 77-120 | 3    | 20        | mg/kg | 01.31.20 22:53 |      |
| Ethylbenzene | <0.0200   | 2.00         | 1.99       | 100      | 1.90        | 95        | 77-120 | 5    | 20        | mg/kg | 01.31.20 22:53 |      |
| m,p-Xylenes  | <0.0400   | 4.00         | 3.98       | 100      | 3.79        | 95        | 78-120 | 5    | 20        | mg/kg | 01.31.20 22:53 |      |
| o-Xylene     | <0.0200   | 2.00         | 2.01       | 101      | 1.94        | 97        | 78-120 | 4    | 20        | mg/kg | 01.31.20 22:53 |      |

| Surrogate              | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 90      |         | 84       |          | 90        |           | 68-120 | %     | 01.31.20 22:53 |
| a,a,a-Trifluorotoluene | 109     |         | 99       |          | 108       |           | 71-121 | %     | 01.31.20 22:53 |

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

Seq Number: 3115331

MB Sample Id: 7695811-1-BLK

Matrix: Solid

LCS Sample Id: 7695811-1-BKS

Prep Method: SW5030B

Date Prep: 01.31.20

LCSD Sample Id: 7695811-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.0200   | 2.00         | 2.03       | 102      | 2.04        | 102       | 55-120 | 0    | 20        | mg/kg | 02.01.20 13:21 |      |
| Toluene      | <0.0200   | 2.00         | 1.98       | 99       | 2.00        | 100       | 77-120 | 1    | 20        | mg/kg | 02.01.20 13:21 |      |
| Ethylbenzene | <0.0200   | 2.00         | 1.99       | 100      | 2.01        | 101       | 77-120 | 1    | 20        | mg/kg | 02.01.20 13:21 |      |
| m,p-Xylenes  | <0.0400   | 4.00         | 3.96       | 99       | 4.00        | 100       | 78-120 | 1    | 20        | mg/kg | 02.01.20 13:21 |      |
| o-Xylene     | <0.0200   | 2.00         | 2.02       | 101      | 2.04        | 102       | 78-120 | 1    | 20        | mg/kg | 02.01.20 13:21 |      |

| Surrogate              | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 91      |         | 83       |          | 88        |           | 68-120 | %     | 02.01.20 13:21 |
| a,a,a-Trifluorotoluene | 107     |         | 96       |          | 104       |           | 71-121 | %     | 02.01.20 13:21 |

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

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

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

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





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Blineberry Sat.1

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

Seq Number: 3115243

MB Sample Id: 7695741-1-BLK

Matrix: Solid

LCS Sample Id: 7695741-1-BKS

Prep Method: SW5030B

Date Prep: 01.31.20

LCSD Sample Id: 7695741-1-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        | 0.123      | 123      | 0.110       | 110       | 70-130 | 11   | 35        | mg/kg | 01.31.20 23:53 |      |
| Toluene      | <0.00200  | 0.100        | 0.113      | 113      | 0.0988      | 99        | 70-130 | 13   | 35        | mg/kg | 01.31.20 23:53 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.110      | 110      | 0.0920      | 92        | 71-129 | 18   | 35        | mg/kg | 01.31.20 23:53 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.216      | 108      | 0.178       | 89        | 70-135 | 19   | 35        | mg/kg | 01.31.20 23:53 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.108      | 108      | 0.0914      | 91        | 71-133 | 17   | 35        | mg/kg | 01.31.20 23:53 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 109      |          | 108       |           | 70-130 | %     | 01.31.20 23:53 |
| 4-Bromofluorobenzene | 95      |         | 92       |          | 89        |           | 70-130 | %     | 01.31.20 23:53 |

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

Seq Number: 3115478

MB Sample Id: 7695915-1-BLK

Matrix: Solid

LCS Sample Id: 7695915-1-BKS

Prep Method: SW5030B

Date Prep: 02.03.20

LCSD Sample Id: 7695915-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.0200   | 2.00         | 1.94       | 97       | 1.94        | 97        | 55-120 | 0    | 20        | mg/kg | 02.03.20 18:48 |      |
| Toluene      | <0.0200   | 2.00         | 1.89       | 95       | 1.92        | 96        | 77-120 | 2    | 20        | mg/kg | 02.03.20 18:48 |      |
| Ethylbenzene | <0.0200   | 2.00         | 1.88       | 94       | 1.94        | 97        | 77-120 | 3    | 20        | mg/kg | 02.03.20 18:48 |      |
| m,p-Xylenes  | <0.0400   | 4.00         | 3.74       | 94       | 3.84        | 96        | 78-120 | 3    | 20        | mg/kg | 02.03.20 18:48 |      |
| o-Xylene     | <0.0200   | 2.00         | 1.90       | 95       | 1.95        | 98        | 78-120 | 3    | 20        | mg/kg | 02.03.20 18:48 |      |

| Surrogate              | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 98      |         | 101      |          | 83        |           | 68-120 | %     | 02.03.20 18:48 |
| a,a,a-Trifluorotoluene | 117     |         | 113      |          | 92        |           | 71-121 | %     | 02.03.20 18:48 |

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

Seq Number: 3115685

MB Sample Id: 7696077-1-BLK

Matrix: Solid

LCS Sample Id: 7696077-1-BKS

Prep Method: SW5030B

Date Prep: 02.05.20

LCSD Sample Id: 7696077-1-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        | 0.123      | 123      | 0.107       | 107       | 70-130 | 14   | 35        | mg/kg | 02.05.20 21:04 |      |
| Toluene      | <0.000456 | 0.100        | 0.118      | 118      | 0.103       | 103       | 70-130 | 14   | 35        | mg/kg | 02.05.20 21:04 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.112      | 112      | 0.0968      | 97        | 70-130 | 15   | 35        | mg/kg | 02.05.20 21:04 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.223      | 112      | 0.192       | 96        | 70-130 | 15   | 35        | mg/kg | 02.05.20 21:04 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.112      | 112      | 0.0958      | 96        | 70-130 | 16   | 35        | mg/kg | 02.05.20 21:04 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 108     |         | 112      |          | 107       |           | 70-130 | %     | 02.05.20 21:04 |
| 4-Bromofluorobenzene | 70      |         | 89       |          | 85        |           | 70-130 | %     | 02.05.20 21:04 |

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.**  
Blineberry Sat.1

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

Seq Number: 3115856

MB Sample Id: 7696080-1-BLK

Matrix: Solid

LCS Sample Id: 7696080-1-BKS

Prep Method: SW5030B

Date Prep: 02.06.20

LCSD Sample Id: 7696080-1-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        | 0.105      | 105      | 0.115       | 115       | 70-130 | 9    | 35        | mg/kg | 02.06.20 07:45 |      |
| Toluene      | <0.000456 | 0.100        | 0.108      | 108      | 0.115       | 115       | 70-130 | 6    | 35        | mg/kg | 02.06.20 07:45 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.104      | 104      | 0.109       | 109       | 70-130 | 5    | 35        | mg/kg | 02.06.20 07:45 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.209      | 105      | 0.219       | 110       | 70-130 | 5    | 35        | mg/kg | 02.06.20 07:45 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.105      | 105      | 0.110       | 110       | 70-130 | 5    | 35        | mg/kg | 02.06.20 07:45 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 107     |         | 114      |          | 112       |           | 70-130 | %     | 02.06.20 07:45 |
| 4-Bromofluorobenzene | 71      |         | 95       |          | 93        |           | 70-130 | %     | 02.06.20 07:45 |

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

Seq Number: 3115239

Parent Sample Id: 650797-067

Matrix: Soil

MS Sample Id: 650797-067 S

Prep Method: SW5030B

Date Prep: 01.31.20

MSD Sample Id: 650797-067 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       | 0.122     | 122     | 0.106      | 106      | 70-130 | 14   | 35        | mg/kg | 01.31.20 14:10 |      |
| Toluene      | <0.00199      | 0.0996       | 0.113     | 113     | 0.102      | 102      | 70-130 | 10   | 35        | mg/kg | 01.31.20 14:10 |      |
| Ethylbenzene | <0.00199      | 0.0996       | 0.110     | 110     | 0.102      | 102      | 71-129 | 8    | 35        | mg/kg | 01.31.20 14:10 |      |
| m,p-Xylenes  | 0.00142       | 0.199        | 0.215     | 107     | 0.200      | 99       | 70-135 | 7    | 35        | mg/kg | 01.31.20 14:10 |      |
| o-Xylene     | <0.00199      | 0.0996       | 0.107     | 107     | 0.0993     | 99       | 71-133 | 7    | 35        | mg/kg | 01.31.20 14:10 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 109     |         | 106      |          | 70-130 | %     | 01.31.20 14:10 |
| 4-Bromofluorobenzene | 95      |         | 96       |          | 70-130 | %     | 01.31.20 14:10 |

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

Seq Number: 3115240

Parent Sample Id: 650797-046

Matrix: Soil

MS Sample Id: 650797-046 S

Prep Method: SW5030B

Date Prep: 01.31.20

MSD Sample Id: 650797-046 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.111     | 111     | 0.102      | 103      | 70-130 | 8    | 35        | mg/kg | 01.31.20 14:58 |      |
| Toluene      | <0.00200      | 0.0998       | 0.108     | 108     | 0.0965     | 97       | 70-130 | 11   | 35        | mg/kg | 01.31.20 14:58 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.102     | 102     | 0.0892     | 90       | 71-129 | 13   | 35        | mg/kg | 01.31.20 14:58 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.207     | 104     | 0.182      | 91       | 70-135 | 13   | 35        | mg/kg | 01.31.20 14:58 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.103     | 103     | 0.0914     | 92       | 71-133 | 12   | 35        | mg/kg | 01.31.20 14:58 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 102     |         | 103      |          | 70-130 | %     | 01.31.20 14:58 |
| 4-Bromofluorobenzene | 97      |         | 102      |          | 70-130 | %     | 01.31.20 14:58 |

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.**  
Blineberry Sat.1

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

Seq Number: 3115326

Parent Sample Id: 650797-001

Matrix: Soil

MS Sample Id: 650797-001 S

Prep Method: SW5030B

Date Prep: 01.31.20

MSD Sample Id: 650797-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 1.60          | 20.0         | 3.85      | 11      | 3.57       | 10       | 54-120 | 8    | 25        | mg/kg | 02.01.20 10:08 | X    |
| Toluene      | 24.5          | 20.0         | 31.9      | 37      | 25.3       | 4        | 57-120 | 23   | 25        | mg/kg | 02.01.20 10:08 | X    |
| Ethylbenzene | 13.6          | 20.0         | 16.7      | 16      | 16.9       | 17       | 58-131 | 1    | 25        | mg/kg | 02.01.20 10:08 | X    |
| m,p-Xylenes  | 69.0          | 39.9         | 93.7      | 62      | 84.6       | 39       | 62-124 | 10   | 25        | mg/kg | 02.01.20 10:08 | X    |
| o-Xylene     | 28.4          | 20.0         | 38.9      | 53      | 35.0       | 33       | 62-124 | 11   | 25        | mg/kg | 02.01.20 10:08 | X    |

**Surrogate**

|                        | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 189     | **      | 165      | **       | 68-120 | %     | 02.01.20 10:08 |
| a,a,a-Trifluorotoluene | 95      |         | 99       |          | 71-121 | %     | 02.01.20 10:08 |

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

Seq Number: 3115331

Parent Sample Id: 650797-021

Matrix: Soil

MS Sample Id: 650797-021 S

Prep Method: SW5030B

Date Prep: 01.31.20

MSD Sample Id: 650797-021 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 8.81          | 20.0         | 10.7      | 9       | 11.6       | 14       | 54-120 | 8    | 25        | mg/kg | 02.01.20 21:01 | X    |
| Toluene      | 77.0          | 20.0         | 93.1      | 81      | 99.5       | 112      | 57-120 | 7    | 25        | mg/kg | 02.01.20 21:01 |      |
| Ethylbenzene | 79.1          | 20.0         | 89.6      | 53      | 94.2       | 75       | 58-131 | 5    | 25        | mg/kg | 02.01.20 21:01 | X    |
| m,p-Xylenes  | 132           | 40.0         | 147       | 38      | 154        | 55       | 62-124 | 5    | 25        | mg/kg | 02.01.20 21:01 | X    |
| o-Xylene     | 53.4          | 20.0         | 60.5      | 36      | 63.2       | 49       | 62-124 | 4    | 25        | mg/kg | 02.01.20 21:01 | X    |

**Surrogate**

|                        | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 351     | **      | 351      | **       | 68-120 | %     | 02.01.20 21:01 |
| a,a,a-Trifluorotoluene | 105     |         | 100      |          | 71-121 | %     | 02.01.20 21:01 |

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

Seq Number: 3115243

Parent Sample Id: 650797-087

Matrix: Soil

MS Sample Id: 650797-087 S

Prep Method: SW5030B

Date Prep: 01.31.20

MSD Sample Id: 650797-087 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       | 0.110     | 110     | 0.125      | 125      | 70-130 | 13   | 35        | mg/kg | 02.01.20 00:37 |      |
| Toluene      | <0.00200      | 0.0998       | 0.102     | 102     | 0.115      | 115      | 70-130 | 12   | 35        | mg/kg | 02.01.20 00:37 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0990    | 99      | 0.111      | 111      | 71-129 | 11   | 35        | mg/kg | 02.01.20 00:37 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.194     | 97      | 0.217      | 109      | 70-135 | 11   | 35        | mg/kg | 02.01.20 00:37 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0985    | 99      | 0.109      | 109      | 71-133 | 10   | 35        | mg/kg | 02.01.20 00:37 |      |

**Surrogate**

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 110     |         | 110      |          | 70-130 | %     | 02.01.20 00:37 |
| 4-Bromofluorobenzene | 96      |         | 95       |          | 70-130 | %     | 02.01.20 00:37 |

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



**Larson and Associates, Inc.**  
Blineberry Sat.1

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

Seq Number: 3115478

Parent Sample Id: 651065-003

Matrix: Soil

MS Sample Id: 651065-003 S

Prep Method: SW5030B

Date Prep: 02.03.20

MSD Sample Id: 651065-003 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 1.77          | 38.0         | 3.00      | 3       | 3.44       | 4        | 54-120 | 14   | 25        | mg/kg | 02.04.20 00:26 | X    |
| Toluene      | 13.3          | 38.0         | 14.4      | 3       | 17.6       | 11       | 57-120 | 20   | 25        | mg/kg | 02.04.20 00:26 | X    |
| Ethylbenzene | 41.6          | 38.0         | 42.5      | 2       | 48.1       | 17       | 58-131 | 12   | 25        | mg/kg | 02.04.20 00:26 | X    |
| m,p-Xylenes  | 66.9          | 76.0         | 68.4      | 2       | 77.1       | 13       | 62-124 | 12   | 25        | mg/kg | 02.04.20 00:26 | X    |
| o-Xylene     | 30.3          | 38.0         | 31.6      | 3       | 36.2       | 15       | 62-124 | 14   | 25        | mg/kg | 02.04.20 00:26 | X    |

**Surrogate**

|                        | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|------------------------|---------|---------|----------|----------|--------|-------|----------------|
| 4-Bromofluorobenzene   | 183     | **      | 149      | **       | 68-120 | %     | 02.04.20 00:26 |
| a,a,a-Trifluorotoluene | 104     |         | 84       |          | 71-121 | %     | 02.04.20 00:26 |

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

Seq Number: 3115685

Parent Sample Id: 650969-021

Matrix: Soil

MS Sample Id: 650969-021 S

Prep Method: SW5030B

Date Prep: 02.05.20

MSD Sample Id: 650969-021 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000384     | 0.0998       | 0.109     | 109     | 0.118      | 118      | 70-130 | 8    | 35        | mg/kg | 02.05.20 21:45 |      |
| Toluene      | <0.000455     | 0.0998       | 0.0975    | 98      | 0.100      | 100      | 70-130 | 3    | 35        | mg/kg | 02.05.20 21:45 |      |
| Ethylbenzene | <0.000564     | 0.0998       | 0.0855    | 86      | 0.0871     | 87       | 70-130 | 2    | 35        | mg/kg | 02.05.20 21:45 |      |
| m,p-Xylenes  | <0.00101      | 0.200        | 0.168     | 84      | 0.171      | 86       | 70-130 | 2    | 35        | mg/kg | 02.05.20 21:45 |      |
| o-Xylene     | <0.000344     | 0.0998       | 0.0872    | 87      | 0.0886     | 89       | 70-130 | 2    | 35        | mg/kg | 02.05.20 21:45 |      |

**Surrogate**

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 111     |         | 105      |          | 70-130 | %     | 02.05.20 21:45 |
| 4-Bromofluorobenzene | 90      |         | 92       |          | 70-130 | %     | 02.05.20 21:45 |

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

Seq Number: 3115856

Parent Sample Id: 650969-022

Matrix: Soil

MS Sample Id: 650969-022 S

Prep Method: SW5030B

Date Prep: 02.06.20

MSD Sample Id: 650969-022 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 0.000594      | 0.0998       | 0.104     | 104     | 0.105      | 104      | 70-130 | 1    | 35        | mg/kg | 02.06.20 08:25 |      |
| Toluene      | 0.000785      | 0.0998       | 0.0970    | 96      | 0.0960     | 95       | 70-130 | 1    | 35        | mg/kg | 02.06.20 08:25 |      |
| Ethylbenzene | <0.000564     | 0.0998       | 0.0910    | 91      | 0.0880     | 88       | 70-130 | 3    | 35        | mg/kg | 02.06.20 08:25 |      |
| m,p-Xylenes  | <0.00101      | 0.200        | 0.178     | 89      | 0.174      | 87       | 70-130 | 2    | 35        | mg/kg | 02.06.20 08:25 |      |
| o-Xylene     | 0.000413      | 0.0998       | 0.0915    | 91      | 0.0877     | 87       | 70-130 | 4    | 35        | mg/kg | 02.06.20 08:25 |      |

**Surrogate**

|                      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 116     |         | 116      |          | 70-130 | %     | 02.06.20 08:25 |
| 4-Bromofluorobenzene | 92      |         | 87       |          | 70-130 | %     | 02.06.20 08:25 |

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



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

DATE: 1/29/2020 PAGE 2 OF 7  
PO#: \_\_\_\_\_ LAB WORK ORDER#: \_\_\_\_\_  
PROJECT LOCATION OR NAME: B41N53ERQY SAT. 1  
LAI PROJECT #: 19-0180-08 COLLECTOR: DS/EC

150797

## CHAIN-OF-CUSTODY

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 ১৪

Final 1.000











# Inter-Office Shipment

IOS Number **57194**

Date/Time: 01/30/20 14:08

Created by: Jessica Kramer

Please send report to: Holly Taylor

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Lubbock**

Air Bill No.: FEDEX

E-Mail: holly.taylor@xenco.com

| Sample Id  | Matrix | Client Sample Id | Sample Collection | Method  | Method Name       | Lab Due  | HT Due         | PM  | Analytes             | Sign |
|------------|--------|------------------|-------------------|---------|-------------------|----------|----------------|-----|----------------------|------|
| 650797-001 | S      | S-3 (1')         | 01/22/20 12:30    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 12:30 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-002 | S      | S-3 (3')         | 01/22/20 12:31    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 12:31 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-003 | S      | S-3 (5')         | 01/22/20 12:55    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 12:55 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-004 | S      | S-3 (10')        | 01/22/20 12:56    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 12:56 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-005 | S      | S-6 (1')         | 01/22/20 13:07    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 13:07 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-006 | S      | S-6 (3')         | 01/22/20 13:08    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 13:08 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-007 | S      | S-6 (5')         | 01/22/20 13:30    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 13:30 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-008 | S      | S-6 (10')        | 01/22/20 13:31    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/05/20 13:31 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-009 | S      | S-8 (1')         | 01/23/20 09:55    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 09:55 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-010 | S      | S-8 (3')         | 01/23/20 09:56    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 09:56 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-011 | S      | S-8 (5')         | 01/23/20 10:04    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:04 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-012 | S      | S-8 (10')        | 01/23/20 10:05    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:05 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-013 | S      | S-9 (1')         | 01/23/20 10:47    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:47 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-014 | S      | S-9 (3')         | 01/23/20 10:48    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:48 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-015 | S      | S-9 (5')         | 01/23/20 10:53    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:53 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-016 | S      | S-9 (10')        | 01/23/20 10:54    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 10:54 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-017 | S      | S-10 (1')        | 01/23/20 11:11    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:11 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-018 | S      | S-10 (3')        | 01/23/20 11:12    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:12 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-019 | S      | S-10 (5')        | 01/23/20 11:15    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:15 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-020 | S      | S-10 (10')       | 01/23/20 11:16    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:16 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-021 | S      | S-11 (1')        | 01/23/20 11:32    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:32 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-022 | S      | S-11 (3')        | 01/23/20 11:33    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:33 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-023 | S      | S-11 (5')        | 01/23/20 11:39    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:39 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-024 | S      | S-11 (10')       | 01/23/20 11:40    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 11:40 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-025 | S      | S-12 (1')        | 01/23/20 12:30    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:30 | HTA | BR4FBZ BZ BZME EBZ X |      |



## Inter-Office Shipment

Page 2 of 2

IOS Number **57194**

Date/Time: 01/30/20 14:08

Created by: Jessica Kramer

Please send report to: Holly Taylor

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Lubbock**

Air Bill No.: FEDEX

E-Mail: holly.taylor@xenco.com

| Sample Id  | Matrix | Client Sample Id | Sample Collection | Method  | Method Name       | Lab Due  | HT Due         | PM  | Analytes             | Sign |
|------------|--------|------------------|-------------------|---------|-------------------|----------|----------------|-----|----------------------|------|
| 650797-026 | S      | S-12 (3')        | 01/23/20 12:03    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:03 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-027 | S      | S-12 (5')        | 01/23/20 12:04    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:04 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-028 | S      | S-12 (10')       | 01/23/20 12:10    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:10 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-029 | S      | S-13 (1')        | 01/23/20 12:21    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:21 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-030 | S      | S-13 (3')        | 01/23/20 12:38    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:38 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-031 | S      | S-13 (5')        | 01/23/20 12:39    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:39 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-032 | S      | S-13 (10')       | 01/23/20 12:46    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:46 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-033 | S      | S-14 (1')        | 01/23/20 12:47    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 12:47 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-034 | S      | S-14 (3')        | 01/23/20 13:06    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:06 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-035 | S      | S-14 (5')        | 01/23/20 13:07    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:07 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-036 | S      | S-14 (10')       | 01/23/20 13:16    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:16 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-037 | S      | S-15 (1')        | 01/23/20 13:17    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:17 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-038 | S      | S-15 (3')        | 01/23/20 13:39    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:39 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-039 | S      | S-15 (5')        | 01/23/20 13:40    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:40 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-040 | S      | S-15 (10')       | 01/23/20 13:56    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/06/20 13:56 | HTA | BR4FBZ BZ BZME EBZ X |      |

## Inter Office Shipment or Sample Comments:

Relinquished By:

Jessica Kramer

Date Relinquished: 01/30/2020

Received By:

Ashley Derstine

Date Received: 01/31/2020 09:30

Cooler Temperature: 2.5

# Inter-Office Shipment

IOS Number **57223**

Date/Time: 01/30/20 17:14

Created by: Jessica Kramer

Please send report to: Holly Taylor

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Carlsbad**

Air Bill No.:

E-Mail: holly.taylor@xenco.com

| Sample Id  | Matrix | Client Sample Id | Sample Collection | Method  | Method Name       | Lab Due  | HT Due         | PM  | Analytes             | Sign |
|------------|--------|------------------|-------------------|---------|-------------------|----------|----------------|-----|----------------------|------|
| 650797-045 | S      | S-17 (1')        | 01/24/20 11:11    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 11:11 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-046 | S      | S-17 (3')        | 01/24/20 11:32    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 11:32 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-047 | S      | S-17 (5')        | 01/24/20 11:33    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 11:33 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-048 | S      | S-17 (7')        | 01/24/20 11:38    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 11:38 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-049 | S      | S-19 (1')        | 01/24/20 11:39    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 11:39 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-050 | S      | S-19 (3')        | 01/24/20 12:32    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:32 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-051 | S      | S-19 (5')        | 01/24/20 12:33    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:33 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-052 | S      | S-19 (10')       | 01/24/20 12:37    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:37 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-053 | S      | S-20 (1')        | 01/24/20 12:38    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:38 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-054 | S      | S-20 (3')        | 01/24/20 12:53    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:53 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-055 | S      | S-20 (5')        | 01/24/20 12:54    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:54 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-056 | S      | S-20 (7')        | 01/24/20 12:58    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:58 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-057 | S      | S-21 (1')        | 01/24/20 12:59    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 12:59 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-058 | S      | S-21 (3')        | 01/24/20 13:15    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 13:15 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-059 | S      | S-21 (5')        | 01/24/20 13:16    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 13:16 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-060 | S      | S-22 (1')        | 01/24/20 13:17    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 13:17 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-061 | S      | S-22 (3')        | 01/24/20 13:24    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 13:24 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-062 | S      | S-22 (5')        | 01/24/20 13:25    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 13:25 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-065 | S      | S-23 (3')        | 01/27/20 12:46    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 12:46 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-066 | S      | S-23 (5')        | 01/27/20 12:55    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 12:55 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-067 | S      | S-23 (10')       | 01/27/20 12:56    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 12:56 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-068 | S      | S-25 (1')        | 01/27/20 13:07    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:07 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-069 | S      | S-25 (3')        | 01/27/20 13:08    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:08 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-070 | S      | S-25 (5')        | 01/27/20 13:13    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:13 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-071 | S      | S-25 (10')       | 01/27/20 13:14    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:14 | HTA | BR4FBZ BZ BZME EBZ X |      |



## Inter-Office Shipment

Page 2 of 3

IOS Number **57223**

Date/Time: 01/30/20 17:14

Created by: Jessica Kramer

Please send report to: Holly Taylor

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Carlsbad**

Air Bill No.:

E-Mail: holly.taylor@xenco.com

| Sample Id  | Matrix | Client Sample Id | Sample Collection | Method  | Method Name       | Lab Due  | HT Due         | PM  | Analytes             | Sign |
|------------|--------|------------------|-------------------|---------|-------------------|----------|----------------|-----|----------------------|------|
| 650797-072 | S      | S-26 (1')        | 01/27/20 13:25    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:25 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-073 | S      | S-26 (3')        | 01/27/20 13:26    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:26 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-074 | S      | S-26 (5')        | 01/27/20 13:32    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:32 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-075 | S      | S-26 (10')       | 01/27/20 13:33    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:33 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-076 | S      | S-27 (1')        | 01/27/20 13:45    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:45 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-077 | S      | S-27 (3')        | 01/27/20 13:46    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:46 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-078 | S      | S-27 (5')        | 01/27/20 13:55    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:55 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-079 | S      | S-27 (10')       | 01/27/20 13:56    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 13:56 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-080 | S      | S-28 (1')        | 01/27/20 14:07    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 14:07 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-081 | S      | S-28 (3')        | 01/27/20 14:08    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 14:08 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-082 | S      | S-28 (5')        | 01/27/20 14:15    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 14:15 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-083 | S      | S-28 (10')       | 01/27/20 14:16    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/10/20 14:16 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-084 | S      | S-2 (1')         | 01/28/20 09:51    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 09:51 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-085 | S      | S-2 (3')         | 01/28/20 09:52    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 09:52 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-086 | S      | S-2 (5')         | 01/28/20 10:15    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 10:15 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-087 | S      | S-2 (10')        | 01/24/20 10:16    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/07/20 10:16 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-088 | S      | S-4 (1')         | 01/28/20 10:20    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 10:20 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-089 | S      | S-4 (3')         | 01/28/20 10:21    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 10:21 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-090 | S      | S-4 (5')         | 01/28/20 10:30    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 10:30 | HTA | BR4FBZ BZ BZME EBZ X |      |
| 650797-091 | S      | S-4 (10')        | 01/28/20 10:31    | SW8021B | BTEX by EPA 8021B | 02/07/20 | 02/11/20 10:31 | HTA | BR4FBZ BZ BZME EBZ X |      |

## Inter Office Shipment or Sample Comments:

Relinquished By:

Jessica Kramer

Received By:

Elizabeth McClellan

Date Relinquished: 01/30/2020

Date Received: 01/31/2020 00:00



## Inter-Office Shipment

Page 3 of 3

**IOS Number 57223**

Date/Time: 01/30/20 17:14

Created by: Jessica Kramer

Please send report to: Holly Taylor

Lab# From: **Midland**

Delivery Priority:

Address: 1211 W. Florida Ave

Lab# To: **Carlsbad**

Air Bill No.:

E-Mail: holly.taylor@xenco.com

**Inter Office Shipment or Sample Comments:**

Cooler Temperature: 2.0



## XENCO Laboratories



## Inter Office Report- Sample Receipt Checklist

Sent To: Lubbock

IOS #: 57194

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Jessica Kramer

Date Sent: 01/30/2020 02:08 PM

Received By: Brenda Ward

Date Received: 01/31/2020 09:30 AM

## Sample Receipt Checklist

## Comments

|                                                           |     |
|-----------------------------------------------------------|-----|
| #1 *Temperature of cooler(s)?                             | 2.5 |
| #2 *Shipping container in good condition?                 | Yes |
| #3 *Samples received with appropriate temperature?        | Yes |
| #4 *Custody Seals intact on shipping container/ cooler?   | Yes |
| #5 *Custody Seals Signed and dated for Containers/coolers | Yes |
| #6 *IOS present?                                          | Yes |
| #7 Any missing/extra samples?                             | No  |
| #8 IOS agrees with sample label(s)/matrix?                | Yes |
| #9 Sample matrix/ properties agree with IOS?              | Yes |
| #10 Samples in proper container/ bottle?                  | Yes |
| #11 Samples properly preserved?                           | Yes |
| #12 Sample container(s) intact?                           | Yes |
| #13 Sufficient sample amount for indicated test(s)?       | Yes |
| #14 All samples received within hold time?                | Yes |

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

NonConformance:

Corrective Action Taken:

## Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by : \_\_\_\_\_ Date: \_\_\_\_\_

Checklist reviewed by:

Ashley Derstine

Date: 01/31/2020



## XENCO Laboratories



## Inter Office Report- Sample Receipt Checklist

Sent To: Carlsbad

IOS #: 57223

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sent By: Jessica Kramer

Date Sent: 01/30/2020 05:14 PM

Received By: Elizabeth McClellan

Date Received: 01/31/2020 12:00 AM

## Sample Receipt Checklist

## Comments

|                                                           |     |                                     |
|-----------------------------------------------------------|-----|-------------------------------------|
| #1 *Temperature of cooler(s)?                             | 2   |                                     |
| #2 *Shipping container in good condition?                 | Yes |                                     |
| #3 *Samples received with appropriate temperature?        | Yes |                                     |
| #4 *Custody Seals intact on shipping container/ cooler?   | Yes |                                     |
| #5 *Custody Seals Signed and dated for Containers/coolers | Yes |                                     |
| #6 *IOS present?                                          | No  |                                     |
| #7 Any missing/extra samples?                             | Yes | Received water samples for Lubbock. |
| #8 IOS agrees with sample label(s)/matrix?                | Yes |                                     |
| #9 Sample matrix/ properties agree with IOS?              | Yes |                                     |
| #10 Samples in proper container/ bottle?                  | Yes |                                     |
| #11 Samples properly preserved?                           | Yes |                                     |
| #12 Sample container(s) intact?                           | Yes |                                     |
| #13 Sufficient sample amount for indicated test(s)?       | Yes |                                     |
| #14 All samples received within hold time?                | Yes |                                     |

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

NonConformance:

Corrective Action Taken:

## Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by : \_\_\_\_\_ Date: \_\_\_\_\_

Checklist reviewed by:

Elizabeth McClellan

Date: 01/31/2020

## XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 01.30.2020 08.44.00 AM

Work Order #: 650797

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)?                           | .6       |
| #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: 01.30.2020

Checklist reviewed by:



Jessica Kramer

Date: 02.03.2020





# Certificate of Analysis Summary 650799

Larson and Associates, Inc., Midland, TX

Project Name: Blineberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 03-MAR-20  
 Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 650799-001       | 650799-002       | 650799-005       | 650799-006       | 650799-007       | 650799-008       |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | <i>Field Id:</i>  | S-35 (1')        | S-35 (3')        | S-36 (1')        | S-36 (3')        | S-36 (5')        | S-36 (10')       |
|                                    | <i>Depth:</i>     |                  |                  |                  |                  |                  |                  |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | <i>Sampled:</i>   | Jan-29-20 10:46  | Jan-29-20 10:47  | Jan-29-20 11:04  | Jan-29-20 11:05  | Jan-29-20 11:11  | Jan-29-20 11:12  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Feb-07-20 09:00  | Feb-07-20 09:00  | Feb-07-20 09:00  | Feb-08-20 10:30  | Feb-08-20 10:30  | Feb-08-20 10:30  |
|                                    | <i>Analyzed:</i>  | Feb-07-20 12:43  | Feb-07-20 18:18  | Feb-07-20 18:59  | Feb-08-20 18:09  | Feb-08-20 18:29  | Feb-08-20 19:48  |
|                                    | <i>Units/RL:</i>  | 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 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Toluene                            |                   | <0.00202 0.00202 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Ethylbenzene                       |                   | <0.00202 0.00202 | <0.00200 0.00200 | 0.00228 0.00202  | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| m,p-Xylenes                        |                   | <0.00403 0.00403 | <0.00400 0.00400 | <0.00403 0.00403 | <0.00402 0.00402 | <0.00402 0.00402 | <0.00398 0.00398 |
| o-Xylene                           |                   | <0.00202 0.00202 | <0.00200 0.00200 | 0.00498 0.00202  | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Total Xylenes                      |                   | <0.00202 0.00202 | <0.00200 0.00200 | 0.00498 0.00202  | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| Total BTEX                         |                   | <0.00202 0.00202 | <0.00200 0.00200 | 0.00726 0.00202  | <0.00201 0.00201 | <0.00201 0.00201 | <0.00199 0.00199 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Jan-30-20 14:45  | Jan-30-20 14:45  | Jan-30-20 14:45  | Jan-30-20 14:45  | Jan-30-20 14:45  | Jan-30-20 14:45  |
|                                    | <i>Analyzed:</i>  | Jan-30-20 20:34  | Jan-30-20 20:54  | Jan-30-20 21:14  | Jan-30-20 21:20  | Jan-30-20 21:27  | Jan-30-20 21:34  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |                   | 163 4.98         | 118 5.04         | 989 5.00         | 9.47 5.00        | 94.8 5.03        | 49.4 4.99        |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  |
|                                    | <i>Analyzed:</i>  | Feb-02-20 15:07  | Feb-02-20 16:10  | Feb-02-20 17:14  | Feb-02-20 17:35  | Feb-02-20 17:56  | Feb-02-20 18:17  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | <49.9 49.9       | <49.9 49.9       | <249 249         | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Diesel Range Organics (DRO)        |                   | <49.9 49.9       | <49.9 49.9       | 7420 249         | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Motor Oil Range Hydrocarbons (MRO) |                   | <49.9 49.9       | <49.9 49.9       | 882 249          | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |
| Total TPH                          |                   | <49.9 49.9       | <49.9 49.9       | 8300 249         | <49.8 49.8       | <50.0 50.0       | <49.9 49.9       |

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

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

Holly Taylor  
Project Manager



# Certificate of Analysis Summary 650799

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 03-MAR-20  
 Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 650799-009      | 650799-010       | 650799-011       | 650799-012       | 650799-013      | 650799-014       |
|------------------------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
|                                    | <i>Field Id:</i>  | S-41 (1')       | S-41 (3')        | S-41 (5')        | S-41 (10')       | S-38 (1')       | S-38 (3')        |
|                                    | <i>Depth:</i>     |                 |                  |                  |                  |                 |                  |
|                                    | <i>Matrix:</i>    | SOIL            | SOIL             | SOIL             | SOIL             | SOIL            | SOIL             |
|                                    | <i>Sampled:</i>   | Jan-29-20 11:20 | Jan-29-20 11:21  | Jan-29-20 11:30  | Jan-29-20 11:31  | Jan-29-20 12:01 | Jan-29-20 12:02  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Feb-08-20 10:30 | Feb-08-20 10:30  | Feb-08-20 10:30  | Feb-08-20 10:30  | Feb-08-20 10:30 | Feb-08-20 10:30  |
|                                    | <i>Analyzed:</i>  | Feb-08-20 21:29 | Feb-08-20 20:08  | Feb-08-20 20:28  | Feb-08-20 20:48  | Feb-08-20 22:29 | Feb-08-20 21:09  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Benzene                            |                   | <0.0199 0.0199  | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | <0.201 0.201    | <0.00200 0.00200 |
| Toluene                            |                   | 0.0720 0.0199   | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | 2.60 0.201      | <0.00200 0.00200 |
| Ethylbenzene                       |                   | 0.635 0.0199    | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | 6.27 0.201      | <0.00200 0.00200 |
| m,p-Xylenes                        |                   | 2.85 0.0398     | <0.00398 0.00398 | <0.00403 0.00403 | <0.00402 0.00402 | 12.8 0.402      | <0.00401 0.00401 |
| o-Xylene                           |                   | 1.40 0.0199     | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | 6.25 0.201      | <0.00200 0.00200 |
| Total Xylenes                      |                   | 4.25 0.0199     | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | 19.1 0.201      | <0.00200 0.00200 |
| Total BTEX                         |                   | 4.96 0.0199     | <0.00199 0.00199 | <0.00202 0.00202 | <0.00201 0.00201 | 27.9 0.201      | <0.00200 0.00200 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Jan-30-20 15:00 | Jan-30-20 15:00  | Jan-30-20 15:00  | Jan-30-20 15:00  | Jan-30-20 15:00 | Jan-30-20 15:00  |
|                                    | <i>Analyzed:</i>  | Jan-30-20 22:34 | Jan-30-20 22:14  | Jan-30-20 22:41  | Jan-30-20 22:47  | Jan-30-20 22:54 | Jan-30-20 23:14  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Chloride                           |                   | 1450 5.05       | 11.7 4.96        | 103 4.99         | 10.3 5.00        | 1040 5.03       | 9.07 4.97        |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Jan-31-20 17:00 | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00  | Jan-31-20 17:00 | Jan-31-20 17:00  |
|                                    | <i>Analyzed:</i>  | Feb-02-20 18:38 | Feb-02-20 18:59  | Feb-02-20 19:41  | Feb-02-20 20:02  | Feb-02-20 20:24 | Feb-02-20 20:45  |
|                                    | <i>Units/RL:</i>  | mg/kg RL        | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL        | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |                   | 351 250         | <50.0 50.0       | <49.8 49.8       | <50.0 50.0       | 2390 250        | <49.8 49.8       |
| Diesel Range Organics (DRO)        |                   | 7700 250        | <50.0 50.0       | <49.8 49.8       | <50.0 50.0       | 13100 250       | 167 49.8         |
| Motor Oil Range Hydrocarbons (MRO) |                   | 861 250         | <50.0 50.0       | <49.8 49.8       | <50.0 50.0       | 2000 250        | <49.8 49.8       |
| Total TPH                          |                   | 8910 250        | <50.0 50.0       | <49.8 49.8       | <50.0 50.0       | 17500 250       | 167 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



# Certificate of Analysis Summary 650799

Larson and Associates, Inc., Midland, TX

Project Name: Blinberry Sat.1

Project Id: 19-0180.08  
 Contact: Mark Larson  
 Project Location:

Date Received in Lab: Thu Jan-30-20 08:44 am  
 Report Date: 03-MAR-20  
 Project Manager: Holly Taylor

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 650799-015       | 650799-016      | 650799-017      | 650799-018       | 650799-019       |  |
|------------------------------------|-------------------|------------------|-----------------|-----------------|------------------|------------------|--|
|                                    | <i>Field Id:</i>  | S-38 (5')        | S-39 (1')       | S-39 (3')       | S-39 (5')        | S-39 (10')       |  |
|                                    | <i>Depth:</i>     |                  |                 |                 |                  |                  |  |
|                                    | <i>Matrix:</i>    | SOIL             | SOIL            | SOIL            | SOIL             | SOIL             |  |
|                                    | <i>Sampled:</i>   | Jan-29-20 12:03  | Jan-29-20 12:12 | Jan-29-20 12:13 | Jan-29-20 12:17  | Jan-29-20 12:18  |  |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | Feb-07-20 10:00  | Feb-07-20 10:00 | Feb-07-20 10:00 | Feb-07-20 10:00  | Feb-07-20 10:00  |  |
|                                    | <i>Analyzed:</i>  | Feb-07-20 20:09  | Feb-07-20 21:09 | Feb-07-20 21:30 | Feb-07-20 20:29  | Feb-07-20 20:49  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |
| Benzene                            |                   | <0.00200 0.00200 | <0.0200 0.0200  | <0.0198 0.0198  | <0.00199 0.00199 | <0.00199 0.00199 |  |
| Toluene                            |                   | <0.00200 0.00200 | 2.12 0.0200     | 0.0368 0.0198   | <0.00199 0.00199 | <0.00199 0.00199 |  |
| Ethylbenzene                       |                   | <0.00200 0.00200 | 7.96 D 0.200    | 0.117 0.0198    | <0.00199 0.00199 | <0.00199 0.00199 |  |
| m,p-Xylenes                        |                   | <0.00399 0.00399 | 16.0 D 0.401    | 0.313 0.0397    | <0.00398 0.00398 | <0.00398 0.00398 |  |
| o-Xylene                           |                   | <0.00200 0.00200 | 9.22 D 0.200    | 1.61 0.0198     | <0.00199 0.00199 | <0.00199 0.00199 |  |
| Total Xylenes                      |                   | <0.00200 0.00200 | 25.2 0.200      | 1.92 0.0198     | <0.00199 0.00199 | <0.00199 0.00199 |  |
| Total BTEX                         |                   | <0.00200 0.00200 | 35.3 0.0200     | 2.08 0.0198     | <0.00199 0.00199 | <0.00199 0.00199 |  |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | Jan-30-20 15:00  | Jan-30-20 15:00 | Jan-30-20 15:00 | Jan-30-20 15:00  | Jan-30-20 15:00  |  |
|                                    | <i>Analyzed:</i>  | Jan-30-20 23:21  | Jan-30-20 23:27 | Jan-30-20 23:34 | Jan-30-20 23:41  | Jan-30-20 23:47  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |
| Chloride                           |                   | 8.71 5.03        | 504 4.98        | 79.8 5.00       | 33.1 5.02        | 22.8 4.99        |  |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | Jan-31-20 17:00  | Jan-31-20 17:00 | Jan-31-20 17:00 | Jan-31-20 17:00  | Jan-31-20 17:00  |  |
|                                    | <i>Analyzed:</i>  | Feb-02-20 21:06  | Feb-02-20 21:27 | Feb-02-20 21:49 | Feb-02-20 22:10  | Feb-02-20 22:31  |  |
|                                    | <i>Units/RL:</i>  | mg/kg RL         | mg/kg RL        | mg/kg RL        | mg/kg RL         | mg/kg RL         |  |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.0 50.0       | 1500 249        | 467 250         | <50.0 50.0       | <49.9 49.9       |  |
| Diesel Range Organics (DRO)        |                   | 66.5 50.0        | 13300 249       | 2550 250        | <50.0 50.0       | <49.9 49.9       |  |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.0 50.0       | 1340 249        | 341 250         | <50.0 50.0       | <49.9 49.9       |  |
| Total TPH                          |                   | 66.5 50.0        | 16100 249       | 3360 250        | <50.0 50.0       | <49.9 49.9       |  |

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

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Holly Taylor  
Project Manager

# Analytical Report 650799

for  
**Larson and Associates, Inc.**

**Project Manager: Mark Larson**

**Blineberry Sat.1**

**19-0180.08**

**03-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)



03-MAR-20

Project Manager: **Mark Larson**

**Larson and Associates, Inc.**

P. O. Box 50685

Midland, TX 79710

Reference: XENCO Report No(s): **650799**

**Blineberry Sat.1**

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) 650799. 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. 650799 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

---

**Holly Taylor**

Project Manager

***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 650799

Larson and Associates, Inc., Midland, TX

Blineberry Sat.1

| Sample Id  | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|------------|--------|----------------|--------------|---------------|
| S-35 (1')  | S      | 01-29-20 10:46 |              | 650799-001    |
| S-35 (3')  | S      | 01-29-20 10:47 |              | 650799-002    |
| S-36 (1')  | S      | 01-29-20 11:04 |              | 650799-005    |
| S-36 (3')  | S      | 01-29-20 11:05 |              | 650799-006    |
| S-36 (5')  | S      | 01-29-20 11:11 |              | 650799-007    |
| S-36 (10') | S      | 01-29-20 11:12 |              | 650799-008    |
| S-41 (1')  | S      | 01-29-20 11:20 |              | 650799-009    |
| S-41 (3')  | S      | 01-29-20 11:21 |              | 650799-010    |
| S-41 (5')  | S      | 01-29-20 11:30 |              | 650799-011    |
| S-41 (10') | S      | 01-29-20 11:31 |              | 650799-012    |
| S-38 (1')  | S      | 01-29-20 12:01 |              | 650799-013    |
| S-38 (3')  | S      | 01-29-20 12:02 |              | 650799-014    |
| S-38 (5')  | S      | 01-29-20 12:03 |              | 650799-015    |
| S-39 (1')  | S      | 01-29-20 12:12 |              | 650799-016    |
| S-39 (3')  | S      | 01-29-20 12:13 |              | 650799-017    |
| S-39 (5')  | S      | 01-29-20 12:17 |              | 650799-018    |
| S-39 10')  | S      | 01-29-20 12:18 |              | 650799-019    |
| S-35 (5')  | S      | 01-29-20 10:53 |              | Not Analyzed  |
| S-35 (10') | S      | 01-29-20 10:54 |              | Not Analyzed  |

**CASE NARRATIVE****Client Name: Larson and Associates, Inc.****Project Name: Blinberry Sat.1**Project ID: 19-0180.08  
Work Order Number(s): 650799Report Date: 03-MAR-20  
Date Received: 01/30/2020

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**Sample receipt non conformances and comments:**3/4/2020 1.001 Revised to remove results for samples 003 and 004 per Rachel Owen (email). HT

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

None

**Analytical non conformances and comments:**

Batch: LBA-3115073 Chloride by EPA 300

Lab Sample ID 650799-019 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride 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: 650799-009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

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

Batch: LBA-3115342 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650799-004.

Batch: LBA-3115939 BTEX by EPA 8021B

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

Batch: LBA-3115950 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7696206-1-BLK.

Batch: LBA-3115993 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7696267-1-BLK.



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-35 (1')  
Lab Sample Id: 650799-001

Matrix: Soil  
Date Collected: 01.29.20 10.46

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 163    | 4.98 | mg/kg | 01.30.20 20.34 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.02.20 15.07 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.02.20 15.07 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.02.20 15.07 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.02.20 15.07 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 81         | %     | 70-135 | 02.02.20 15.07 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 02.02.20 15.07 |      |





# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-35 (1')  
Lab Sample Id: 650799-001

Matrix: Soil  
Date Collected: 01.29.20 10.46

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 09.00

Basis: Wet Weight

Seq Number: 3115939

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.07.20 12.43       | 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          | 95                | %            | 70-130        | 02.07.20 12.43       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 116               | %            | 70-130        | 02.07.20 12.43       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-35 (3')  
Lab Sample Id: 650799-002

Matrix: Soil  
Date Collected: 01.29.20 10.47

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 118    | 5.04 | mg/kg | 01.30.20 20.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.02.20 16.10 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.02.20 16.10 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.02.20 16.10 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.02.20 16.10 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 81         | %     | 70-135 | 02.02.20 16.10 |      |
| o-Terphenyl    | 84-15-1    | 100        | %     | 70-135 | 02.02.20 16.10 |      |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-35 (3')  
 Lab Sample Id: 650799-002

Matrix: Soil  
 Date Collected: 01.29.20 10.47

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 09.00

Basis: Wet Weight

Seq Number: 3115939

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00400          | 0.00400      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.07.20 18.18       | 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          | 128               | %            | 70-130        | 02.07.20 18.18       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 98                | %            | 70-130        | 02.07.20 18.18       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-36 (1')  
 Lab Sample Id: 650799-005

Matrix: Soil  
 Date Collected: 01.29.20 11.04

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 989    | 5.00 | mg/kg | 01.30.20 21.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <249   | 249 | mg/kg | 02.02.20 17.14 | U    | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 7420   | 249 | mg/kg | 02.02.20 17.14 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 882    | 249 | mg/kg | 02.02.20 17.14 |      | 5   |
| Total TPH                          | PHC635     | 8300   | 249 | mg/kg | 02.02.20 17.14 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 86         | %     | 70-135 | 02.02.20 17.14 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 02.02.20 17.14 |      |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: **S-36 (1')**  
Lab Sample Id: 650799-005

Matrix: Soil  
Date Collected: 01.29.20 11.04

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 09.00

Basis: Wet Weight

Seq Number: 3115939

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.07.20 18.59       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.07.20 18.59       | U           | 1   |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.00228</b>    | 0.00202      | mg/kg         | 02.07.20 18.59       |             | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.07.20 18.59       | U           | 1   |
| <b>o-Xylene</b>      | 95-47-6           | <b>0.00498</b>    | 0.00202      | mg/kg         | 02.07.20 18.59       |             | 1   |
| <b>Total Xylenes</b> | 1330-20-7         | <b>0.00498</b>    | 0.00202      | mg/kg         | 02.07.20 18.59       |             | 1   |
| <b>Total BTEX</b>    |                   | <b>0.00726</b>    | 0.00202      | mg/kg         | 02.07.20 18.59       |             | 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          | 106               | %            | 70-130        | 02.07.20 18.59       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 02.07.20 18.59       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-36 (3')  
Lab Sample Id: 650799-006

Matrix: Soil  
Date Collected: 01.29.20 11.05

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 9.47   | 5.00 | mg/kg | 01.30.20 21.20 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 02.02.20 17.35       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.8             | 49.8         | mg/kg         | 02.02.20 17.35       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 02.02.20 17.35       | U           | 1   |
| Total TPH                          | PHC635            | <49.8             | 49.8         | mg/kg         | 02.02.20 17.35       | 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> |     |
| 1-Chlorooctane                     | 111-85-3          | 79                | %            | 70-135        | 02.02.20 17.35       |             |     |
| o-Terphenyl                        | 84-15-1           | 94                | %            | 70-135        | 02.02.20 17.35       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-36 (3')  
 Lab Sample Id: 650799-006

Matrix: Soil  
 Date Collected: 01.29.20 11.05

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.09       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 118               | %            | 70-130        | 02.08.20 18.09       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 87                | %            | 70-130        | 02.08.20 18.09       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-36 (5')  
Lab Sample Id: 650799-007

Matrix: Soil  
Date Collected: 01.29.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 94.8   | 5.03 | mg/kg | 01.30.20 21.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.02.20 17.56       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.02.20 17.56       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.02.20 17.56       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.02.20 17.56       | 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          | 86                | %            | 70-135        | 02.02.20 17.56       |             |     |
| o-Terphenyl                        | 84-15-1           | 99                | %            | 70-135        | 02.02.20 17.56       |             |     |





# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-36 (5')  
 Lab Sample Id: 650799-007

Matrix: Soil  
 Date Collected: 01.29.20 11.11

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 02.08.20 18.29       | 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          | 115               | %            | 70-130        | 02.08.20 18.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 82                | %            | 70-130        | 02.08.20 18.29       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-36 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650799-008

Date Collected: 01.29.20 11.12

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 14.45

Basis: Wet Weight

Seq Number: 3115068

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 49.4   | 4.99 | mg/kg | 01.30.20 21.34 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.9             | 49.9         | mg/kg         | 02.02.20 18.17       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <49.9             | 49.9         | mg/kg         | 02.02.20 18.17       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.9             | 49.9         | mg/kg         | 02.02.20 18.17       | U           | 1   |
| Total TPH                          | PHC635            | <49.9             | 49.9         | mg/kg         | 02.02.20 18.17       | 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          | 78                | %            | 70-135        | 02.02.20 18.17       |             |     |
| o-Terphenyl                        | 84-15-1           | 98                | %            | 70-135        | 02.02.20 18.17       |             |     |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-36 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650799-008

Date Collected: 01.29.20 11.12

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.08.20 19.48       | 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          | 111               | %            | 70-130        | 02.08.20 19.48       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 70                | %            | 70-130        | 02.08.20 19.48       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-41 (1')  
Lab Sample Id: 650799-009

Matrix: Soil  
Date Collected: 01.29.20 11.20

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1450   | 5.05 | mg/kg | 01.30.20 22.34 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 351        | 250   | mg/kg  | 02.02.20 18.38 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 7700       | 250   | mg/kg  | 02.02.20 18.38 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 861        | 250   | mg/kg  | 02.02.20 18.38 |      | 5   |
| Total TPH                          | PHC635     | 8910       | 250   | mg/kg  | 02.02.20 18.38 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 02.02.20 18.38 |      |     |
| o-Terphenyl                        | 84-15-1    | 116        | %     | 70-135 | 02.02.20 18.38 |      |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: **S-41 (1')**  
Lab Sample Id: 650799-009

Matrix: Soil  
Date Collected: 01.29.20 11.20

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0199           | 0.0199       | mg/kg         | 02.08.20 21.29       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.0720</b>     | 0.0199       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.635</b>      | 0.0199       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>2.85</b>       | 0.0398       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>1.40</b>       | 0.0199       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>4.25</b>       | 0.0199       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>4.96</b>       | 0.0199       | mg/kg         | 02.08.20 21.29       |             | 10  |
| <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          | 86                | %            | 70-130        | 02.08.20 21.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 222               | %            | 70-130        | 02.08.20 21.29       | **          |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-41 (3')  
Lab Sample Id: 650799-010

Matrix: Soil  
Date Collected: 01.29.20 11.21

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 11.7   | 4.96 | mg/kg | 01.30.20 22.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.02.20 18.59       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.02.20 18.59       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.02.20 18.59       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.02.20 18.59       | 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          | 82                | %            | 70-135        | 02.02.20 18.59       |             |     |
| o-Terphenyl                        | 84-15-1           | 104               | %            | 70-135        | 02.02.20 18.59       |             |     |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-41 (3')  
 Lab Sample Id: 650799-010

Matrix: Soil  
 Date Collected: 01.29.20 11.21

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.08.20 20.08       | 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          | 76                | %            | 70-130        | 02.08.20 20.08       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 109               | %            | 70-130        | 02.08.20 20.08       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-41 (5')  
Lab Sample Id: 650799-011

Matrix: Soil  
Date Collected: 01.29.20 11.30

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 103    | 4.99 | mg/kg | 01.30.20 22.41 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8 | mg/kg | 02.02.20 19.41 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8 | mg/kg | 02.02.20 19.41 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8 | mg/kg | 02.02.20 19.41 | U    | 1   |
| Total TPH                          | PHC635     | <49.8  | 49.8 | mg/kg | 02.02.20 19.41 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 83         | %     | 70-135 | 02.02.20 19.41 |      |
| o-Terphenyl    | 84-15-1    | 103        | %     | 70-135 | 02.02.20 19.41 |      |





# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-41 (5')  
 Lab Sample Id: 650799-011

Matrix: Soil  
 Date Collected: 01.29.20 11.30

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | U           | 1   |
| Total BTEX           |                   | <0.00202          | 0.00202      | mg/kg         | 02.08.20 20.28       | 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          | 75                | %            | 70-130        | 02.08.20 20.28       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 112               | %            | 70-130        | 02.08.20 20.28       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-41 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650799-012

Date Collected: 01.29.20 11.31

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 10.3   | 5.00 | mg/kg | 01.30.20 22.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <50.0             | 50.0         | mg/kg         | 02.02.20 20.02       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | <50.0             | 50.0         | mg/kg         | 02.02.20 20.02       | U           | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <50.0             | 50.0         | mg/kg         | 02.02.20 20.02       | U           | 1   |
| Total TPH                          | PHC635            | <50.0             | 50.0         | mg/kg         | 02.02.20 20.02       | 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          | 82                | %            | 70-135        | 02.02.20 20.02       |             |     |
| o-Terphenyl                        | 84-15-1           | 96                | %            | 70-135        | 02.02.20 20.02       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-41 (10')

Matrix: Soil

Date Received: 01.30.20 08.44

Lab Sample Id: 650799-012

Date Collected: 01.29.20 11.31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | U           | 1   |
| Total BTEX           |                   | <0.00201          | 0.00201      | mg/kg         | 02.08.20 20.48       | 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          | 112               | %            | 70-130        | 02.08.20 20.48       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 77                | %            | 70-130        | 02.08.20 20.48       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-38 (1')  
Lab Sample Id: 650799-013

Matrix: Soil  
Date Collected: 01.29.20 12.01

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 1040   | 5.03 | mg/kg | 01.30.20 22.54 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 2390       | 250   | mg/kg  | 02.02.20 20.24 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 13100      | 250   | mg/kg  | 02.02.20 20.24 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 2000       | 250   | mg/kg  | 02.02.20 20.24 |      | 5   |
| Total TPH                          | PHC635     | 17500      | 250   | mg/kg  | 02.02.20 20.24 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 98         | %     | 70-135 | 02.02.20 20.24 |      |     |
| o-Terphenyl                        | 84-15-1    | 108        | %     | 70-135 | 02.02.20 20.24 |      |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-38 (1')  
Lab Sample Id: 650799-013

Matrix: Soil  
Date Collected: 01.29.20 12.01

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.201            | 0.201        | mg/kg         | 02.08.20 22.29       | U           | 100 |
| <b>Toluene</b>       | 108-88-3          | <b>2.60</b>       | 0.201        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>6.27</b>       | 0.201        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>12.8</b>       | 0.402        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>6.25</b>       | 0.201        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>19.1</b>       | 0.201        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>27.9</b>       | 0.201        | mg/kg         | 02.08.20 22.29       |             | 100 |
| <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          | 142               | %            | 70-130        | 02.08.20 22.29       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 90                | %            | 70-130        | 02.08.20 22.29       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-38 (3')  
Lab Sample Id: 650799-014

Matrix: Soil  
Date Collected: 01.29.20 12.02

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 9.07   | 4.97 | mg/kg | 01.30.20 23.14 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|------------------------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610            | <49.8             | 49.8         | mg/kg         | 02.02.20 20.45       | U           | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO         | 167               | 49.8         | mg/kg         | 02.02.20 20.45       |             | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835          | <49.8             | 49.8         | mg/kg         | 02.02.20 20.45       | U           | 1   |
| Total TPH                          | PHC635            | 167               | 49.8         | mg/kg         | 02.02.20 20.45       |             | 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          | 84                | %            | 70-135        | 02.02.20 20.45       |             |     |
| o-Terphenyl                        | 84-15-1           | 101               | %            | 70-135        | 02.02.20 20.45       |             |     |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-38 (3')  
 Lab Sample Id: 650799-014

Matrix: Soil  
 Date Collected: 01.29.20 12.02

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.08.20 10.30

Basis: Wet Weight

Seq Number: 3115993

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.08.20 21.09       | 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          | 79                | %            | 70-130        | 02.08.20 21.09       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 107               | %            | 70-130        | 02.08.20 21.09       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-38 (5')  
Lab Sample Id: 650799-015

Matrix: Soil  
Date Collected: 01.29.20 12.03

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 8.71   | 5.03 | mg/kg | 01.30.20 23.21 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.02.20 21.06 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 66.5   | 50.0 | mg/kg | 02.02.20 21.06 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.02.20 21.06 | U    | 1   |
| Total TPH                          | PHC635     | 66.5   | 50.0 | mg/kg | 02.02.20 21.06 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 80         | %     | 70-135 | 02.02.20 21.06 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 02.02.20 21.06 |      |





# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-38 (5')  
 Lab Sample Id: 650799-015

Matrix: Soil  
 Date Collected: 01.29.20 12.03

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 02.07.20 20.09       | 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> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 02.07.20 20.09       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 89                | %            | 70-130        | 02.07.20 20.09       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-39 (1')  
Lab Sample Id: 650799-016

Matrix: Soil  
Date Collected: 01.29.20 12.12

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3115073

Prep Method: E300P

% Moisture:

Date Prep: 01.30.20 15.00

Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 504    | 4.98 | mg/kg | 01.30.20 23.27 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3115342

Prep Method: SW8015P

% Moisture:

Date Prep: 01.31.20 17.00

Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 1500       | 249   | mg/kg  | 02.02.20 21.27 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 13300      | 249   | mg/kg  | 02.02.20 21.27 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 1340       | 249   | mg/kg  | 02.02.20 21.27 |      | 5   |
| Total TPH                          | PHC635     | 16100      | 249   | mg/kg  | 02.02.20 21.27 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 103        | %     | 70-135 | 02.02.20 21.27 |      |     |
| o-Terphenyl                        | 84-15-1    | 111        | %     | 70-135 | 02.02.20 21.27 |      |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-39 (1')  
Lab Sample Id: 650799-016

Matrix: Soil  
Date Collected: 01.29.20 12.12

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0200           | 0.0200       | mg/kg         | 02.07.20 21.09       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>2.12</b>       | 0.0200       | mg/kg         | 02.07.20 21.09       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>7.96</b>       | 0.200        | mg/kg         | 02.08.20 22.49       | D           | 100 |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>16.0</b>       | 0.401        | mg/kg         | 02.08.20 22.49       | D           | 100 |
| <b>o-Xylene</b>      | 95-47-6           | <b>9.22</b>       | 0.200        | mg/kg         | 02.08.20 22.49       | D           | 100 |
| <b>Total Xylenes</b> | 1330-20-7         | <b>25.2</b>       | 0.200        | mg/kg         | 02.08.20 22.49       |             | 100 |
| <b>Total BTEX</b>    |                   | <b>35.3</b>       | 0.0200       | mg/kg         | 02.08.20 22.49       |             | 100 |
| <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          | 890               | %            | 70-130        | 02.07.20 21.09       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 88                | %            | 70-130        | 02.07.20 21.09       |             |     |



## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-39 (3')  
Lab Sample Id: 650799-017

Matrix: Soil  
Date Collected: 01.29.20 12.13

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 79.8   | 5.00 | mg/kg | 01.30.20 23.34 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result     | RL    | Units  | Analysis Date  | Flag | Dil |
|------------------------------------|------------|------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 467        | 250   | mg/kg  | 02.02.20 21.49 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 2550       | 250   | mg/kg  | 02.02.20 21.49 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | 341        | 250   | mg/kg  | 02.02.20 21.49 |      | 5   |
| Total TPH                          | PHC635     | 3360       | 250   | mg/kg  | 02.02.20 21.49 |      | 5   |
| Surrogate                          | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |     |
| 1-Chlorooctane                     | 111-85-3   | 94         | %     | 70-135 | 02.02.20 21.49 |      |     |
| o-Terphenyl                        | 84-15-1    | 102        | %     | 70-135 | 02.02.20 21.49 |      |     |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-39 (3')  
 Lab Sample Id: 650799-017

Matrix: Soil  
 Date Collected: 01.29.20 12.13

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.0198           | 0.0198       | mg/kg         | 02.07.20 21.30       | U           | 10  |
| <b>Toluene</b>       | 108-88-3          | <b>0.0368</b>     | 0.0198       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <b>Ethylbenzene</b>  | 100-41-4          | <b>0.117</b>      | 0.0198       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <b>m,p-Xylenes</b>   | 179601-23-1       | <b>0.313</b>      | 0.0397       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <b>o-Xylene</b>      | 95-47-6           | <b>1.61</b>       | 0.0198       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <b>Total Xylenes</b> | 1330-20-7         | <b>1.92</b>       | 0.0198       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <b>Total BTEX</b>    |                   | <b>2.08</b>       | 0.0198       | mg/kg         | 02.07.20 21.30       |             | 10  |
| <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          | 287               | %            | 70-130        | 02.07.20 21.30       | **          |     |
| 1,4-Difluorobenzene  | 540-36-3          | 94                | %            | 70-130        | 02.07.20 21.30       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-39 (5')  
Lab Sample Id: 650799-018

Matrix: Soil  
Date Collected: 01.29.20 12.17

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 33.1   | 5.02 | mg/kg | 01.30.20 23.41 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0 | mg/kg | 02.02.20 22.10 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0 | mg/kg | 02.02.20 22.10 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0 | mg/kg | 02.02.20 22.10 | U    | 1   |
| Total TPH                          | PHC635     | <50.0  | 50.0 | mg/kg | 02.02.20 22.10 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 79         | %     | 70-135 | 02.02.20 22.10 |      |
| o-Terphenyl    | 84-15-1    | 97         | %     | 70-135 | 02.02.20 22.10 |      |



# Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-39 (5')  
 Lab Sample Id: 650799-018

Matrix: Soil  
 Date Collected: 01.29.20 12.17

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.29       | 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          | 117               | %            | 70-130        | 02.07.20 20.29       |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 86                | %            | 70-130        | 02.07.20 20.29       |             |     |



# Certificate of Analytical Results 650799



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

Blineberry Sat.1

Sample Id: S-39 10')  
Lab Sample Id: 650799-019

Matrix: Soil  
Date Collected: 01.29.20 12.18

Date Received: 01.30.20 08.44

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 01.30.20 15.00

Basis: Wet Weight

Seq Number: 3115073

| Parameter | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride  | 16887-00-6 | 22.8   | 4.99 | mg/kg | 01.30.20 23.47 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 01.31.20 17.00

Basis: Wet Weight

Seq Number: 3115342

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date  | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9 | mg/kg | 02.02.20 22.31 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9 | mg/kg | 02.02.20 22.31 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9 | mg/kg | 02.02.20 22.31 | U    | 1   |
| Total TPH                          | PHC635     | <49.9  | 49.9 | mg/kg | 02.02.20 22.31 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date  | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3   | 82         | %     | 70-135 | 02.02.20 22.31 |      |
| o-Terphenyl    | 84-15-1    | 99         | %     | 70-135 | 02.02.20 22.31 |      |





## Certificate of Analytical Results 650799

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

Blineberry Sat.1

Sample Id: S-39 10')  
Lab Sample Id: 650799-019

Matrix: Soil  
Date Collected: 01.29.20 12.18

Date Received: 01.30.20 08.44

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 02.07.20 10.00

Basis: Wet Weight

Seq Number: 3115950

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 02.07.20 20.49       | 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> |     |
| 4-Bromofluorobenzene | 460-00-4          | 77                | %            | 70-130        | 02.07.20 20.49       |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 117               | %            | 70-130        | 02.07.20 20.49       |             |     |



## 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.

**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.

Blineberry Sat.1

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115068

MB Sample Id: 7695614-1-BLK

Matrix: Solid

LCS Sample Id: 7695614-1-BKS

Prep Method: E300P

Date Prep: 01.30.20

LCSD Sample Id: 7695614-1-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          | 265        | 106      | 262         | 105       | 90-110 | 1    | 20        | mg/kg | 01.30.20 18:20 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

MB Sample Id: 7695620-1-BLK

Matrix: Solid

LCS Sample Id: 7695620-1-BKS

Prep Method: E300P

Date Prep: 01.30.20

LCSD Sample Id: 7695620-1-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          | 263        | 105      | 262         | 105       | 90-110 | 0    | 20        | mg/kg | 01.30.20 22:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115068

Parent Sample Id: 650655-003

Matrix: Soil

MS Sample Id: 650655-003 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650655-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 1080          | 250          | 1290      | 84      | 1290       | 84       | 90-110 | 0    | 20        | mg/kg | 01.30.20 18:40 | X    |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115068

Parent Sample Id: 650683-006

Matrix: Soil

MS Sample Id: 650683-006 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650683-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 122           | 249          | 388       | 107     | 385        | 106      | 90-110 | 1    | 20        | mg/kg | 01.30.20 20:14 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

Parent Sample Id: 650799-010

Matrix: Soil

MS Sample Id: 650799-010 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650799-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride  | 11.7          | 248          | 192       | 73      | 191        | 72       | 90-110 | 1    | 20        | mg/kg | 01.30.20 22:21 | 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.**  
Blineberry Sat.1

**Analytical Method: Chloride by EPA 300**

Seq Number: 3115073

Parent Sample Id: 650799-019

Matrix: Soil

MS Sample Id: 650799-019 S

Prep Method: E300P

Date Prep: 01.30.20

MSD Sample Id: 650799-019 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          | 250          | 300       | 111     | 297        | 110      | 90-110 | 1    | 20        | mg/kg | 01.30.20 23:54 | X    |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115342

MB Sample Id: 7695802-1-BLK

Matrix: Solid

LCS Sample Id: 7695802-1-BKS

Prep Method: SW8015P

Date Prep: 01.31.20

LCSD Sample Id: 7695802-1-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) | <15.0     | 1000         | 817        | 82       | 815         | 82        | 70-135 | 0    | 20        | mg/kg | 02.02.20 14:24 |      |
| Diesel Range Organics (DRO)       | <15.0     | 1000         | 916        | 92       | 842         | 84        | 70-135 | 8    | 20        | mg/kg | 02.02.20 14:24 |      |

**Surrogate**

|                | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 79      |         | 90       |          | 84        |           | 70-135 | %     | 02.02.20 14:24 |
| o-Terphenyl    | 99      |         | 108      |          | 96        |           | 70-135 | %     | 02.02.20 14:24 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115342

Matrix: Solid

MB Sample Id: 7695802-1-BLK

Prep Method: SW8015P

Date Prep: 01.31.20

| Parameter                          | MB Result | Units | Analysis Date  | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 02.02.20 14:03 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3115342

Matrix: Soil

Parent Sample Id: 650799-001

MS Sample Id: 650799-001 S

Prep Method: SW8015P

Date Prep: 01.31.20

MSD Sample Id: 650799-001 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) | 24.0          | 999          | 775       | 75      | 774        | 75       | 70-135 | 0    | 20        | mg/kg | 02.02.20 15:28 |      |
| Diesel Range Organics (DRO)       | 18.7          | 999          | 842       | 82      | 833        | 82       | 70-135 | 1    | 20        | mg/kg | 02.02.20 15:28 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 86      |         | 84       |          | 70-135 | %     | 02.02.20 15:28 |
| o-Terphenyl    | 98      |         | 97       |          | 70-135 | %     | 02.02.20 15:28 |

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

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

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

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



**Larson and Associates, Inc.**  
Blineberry Sat.1

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

Seq Number: 3115939

MB Sample Id: 7696203-1-BLK

Matrix: Solid

LCS Sample Id: 7696203-1-BKS

Prep Method: SW5030B

Date Prep: 02.07.20

LCSD Sample Id: 7696203-1-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        | 0.0993     | 99       | 0.0987      | 99        | 70-130 | 1    | 35        | mg/kg | 02.07.20 10:11 |      |
| Toluene      | <0.00200  | 0.100        | 0.0931     | 93       | 0.0909      | 91        | 70-130 | 2    | 35        | mg/kg | 02.07.20 10:11 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0959     | 96       | 0.0924      | 92        | 70-130 | 4    | 35        | mg/kg | 02.07.20 10:11 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.194      | 97       | 0.185       | 93        | 70-130 | 5    | 35        | mg/kg | 02.07.20 10:11 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0987     | 99       | 0.0946      | 95        | 70-130 | 4    | 35        | mg/kg | 02.07.20 10:11 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 93       |          | 95        |           | 70-130 | %     | 02.07.20 10:11 |
| 4-Bromofluorobenzene | 116     |         | 105      |          | 102       |           | 70-130 | %     | 02.07.20 10:11 |

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

Seq Number: 3115950

MB Sample Id: 7696206-1-BLK

Matrix: Solid

LCS Sample Id: 7696206-1-BKS

Prep Method: SW5030B

Date Prep: 02.07.20

LCSD Sample Id: 7696206-1-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      | 0.120       | 120       | 70-130 | 3    | 35        | mg/kg | 02.07.20 11:29 |      |
| Toluene      | <0.000456 | 0.100        | 0.118      | 118      | 0.119       | 119       | 70-130 | 1    | 35        | mg/kg | 02.07.20 11:29 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.113      | 113      | 0.114       | 114       | 70-130 | 1    | 35        | mg/kg | 02.07.20 11:29 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.224      | 112      | 0.227       | 114       | 70-130 | 1    | 35        | mg/kg | 02.07.20 11:29 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.110      | 110      | 0.112       | 112       | 70-130 | 2    | 35        | mg/kg | 02.07.20 11:29 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 108     |         | 112      |          | 111       |           | 70-130 | %     | 02.07.20 11:29 |
| 4-Bromofluorobenzene | 66      | **      | 86       |          | 87        |           | 70-130 | %     | 02.07.20 11:29 |

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

Seq Number: 3115993

MB Sample Id: 7696267-1-BLK

Matrix: Solid

LCS Sample Id: 7696267-1-BKS

Prep Method: SW5030B

Date Prep: 02.08.20

LCSD Sample Id: 7696267-1-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        | 0.118      | 118      | 0.116       | 116       | 70-130 | 2    | 35        | mg/kg | 02.08.20 13:09 |      |
| Toluene      | <0.000456 | 0.100        | 0.115      | 115      | 0.111       | 111       | 70-130 | 4    | 35        | mg/kg | 02.08.20 13:09 |      |
| Ethylbenzene | <0.000565 | 0.100        | 0.110      | 110      | 0.106       | 106       | 70-130 | 4    | 35        | mg/kg | 02.08.20 13:09 |      |
| m,p-Xylenes  | <0.00101  | 0.200        | 0.219      | 110      | 0.210       | 105       | 70-130 | 4    | 35        | mg/kg | 02.08.20 13:09 |      |
| o-Xylene     | <0.000344 | 0.100        | 0.108      | 108      | 0.104       | 104       | 70-130 | 4    | 35        | mg/kg | 02.08.20 13:09 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 106     |         | 113      |          | 112       |           | 70-130 | %     | 02.08.20 13:09 |
| 4-Bromofluorobenzene | 67      | **      | 91       |          | 90        |           | 70-130 | %     | 02.08.20 13:09 |

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.**  
Blineberry Sat.1

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

Seq Number: 3115939

Parent Sample Id: 650799-001

Matrix: Soil

MS Sample Id: 650799-001 S

Prep Method: SW5030B

Date Prep: 02.07.20

MSD Sample Id: 650799-001 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        | 0.0762    | 76      | 0.0824     | 83       | 70-130 | 8    | 35        | mg/kg | 02.07.20 10:52 |      |
| Toluene      | <0.00200      | 0.100        | 0.0699    | 70      | 0.0750     | 75       | 70-130 | 7    | 35        | mg/kg | 02.07.20 10:52 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0710    | 71      | 0.0755     | 76       | 70-130 | 6    | 35        | mg/kg | 02.07.20 10:52 |      |
| m,p-Xylenes  | <0.00401      | 0.200        | 0.141     | 71      | 0.149      | 75       | 70-130 | 6    | 35        | mg/kg | 02.07.20 10:52 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0738    | 74      | 0.0772     | 77       | 70-130 | 5    | 35        | mg/kg | 02.07.20 10:52 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 95      |         | 96       |          | 70-130 | %     | 02.07.20 10:52 |
| 4-Bromofluorobenzene | 105     |         | 104      |          | 70-130 | %     | 02.07.20 10:52 |

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

Seq Number: 3115950

Parent Sample Id: 651519-001

Matrix: Soil

MS Sample Id: 651519-001 S

Prep Method: SW5030B

Date Prep: 02.07.20

MSD Sample Id: 651519-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | 0.000767      | 0.0998       | 0.109     | 108     | 0.116      | 116      | 70-130 | 6    | 35        | mg/kg | 02.07.20 12:09 |      |
| Toluene      | 0.000618      | 0.0998       | 0.102     | 102     | 0.106      | 106      | 70-130 | 4    | 35        | mg/kg | 02.07.20 12:09 |      |
| Ethylbenzene | <0.000564     | 0.0998       | 0.0925    | 93      | 0.0966     | 97       | 70-130 | 4    | 35        | mg/kg | 02.07.20 12:09 |      |
| m,p-Xylenes  | <0.00101      | 0.200        | 0.181     | 91      | 0.188      | 94       | 70-130 | 4    | 35        | mg/kg | 02.07.20 12:09 |      |
| o-Xylene     | <0.000344     | 0.0998       | 0.0913    | 91      | 0.0941     | 95       | 70-130 | 3    | 35        | mg/kg | 02.07.20 12:09 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 113     |         | 116      |          | 70-130 | %     | 02.07.20 12:09 |
| 4-Bromofluorobenzene | 90      |         | 92       |          | 70-130 | %     | 02.07.20 12:09 |

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

Seq Number: 3115993

Parent Sample Id: 651252-006

Matrix: Soil

MS Sample Id: 651252-006 S

Prep Method: SW5030B

Date Prep: 02.08.20

MSD Sample Id: 651252-006 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date  | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene      | <0.000383     | 0.0996       | 0.116     | 116     | 0.115      | 115      | 70-130 | 1    | 35        | mg/kg | 02.08.20 13:49 |      |
| Toluene      | 0.000807      | 0.0996       | 0.107     | 107     | 0.102      | 101      | 70-130 | 5    | 35        | mg/kg | 02.08.20 13:49 |      |
| Ethylbenzene | <0.000563     | 0.0996       | 0.101     | 101     | 0.0933     | 93       | 70-130 | 8    | 35        | mg/kg | 02.08.20 13:49 |      |
| m,p-Xylenes  | <0.00101      | 0.199        | 0.200     | 101     | 0.186      | 93       | 70-130 | 7    | 35        | mg/kg | 02.08.20 13:49 |      |
| o-Xylene     | 0.000349      | 0.0996       | 0.101     | 101     | 0.0955     | 95       | 70-130 | 6    | 35        | mg/kg | 02.08.20 13:49 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date  |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene  | 114     |         | 114      |          | 70-130 | %     | 02.08.20 13:49 |
| 4-Bromofluorobenzene | 91      |         | 88       |          | 70-130 | %     | 02.08.20 13:49 |

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

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

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

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



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

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

Data Reported to:

DATE: 1/21/2020 PAGE 1 OF 2  
PO#: 1050999 LAB WORK ORDER#: 1050999  
PROJECT LOCATION OR NAME: Blindberry sat. 1  
LAI PROJECT #: 14.0180.08 COLLECTOR: DS/EC

CHAIN-OF-CUSTODY

Nº 0922

Received by OCD: 4/1/2020 12:00:08 AM

| Field Sample I.D. | Lab # | Date    | Time | Matrix | # of Containers | PRESERVATION |                  |                                                                                       |     | ANALYSES | FIELD NOTES |              |
|-------------------|-------|---------|------|--------|-----------------|--------------|------------------|---------------------------------------------------------------------------------------|-----|----------|-------------|--------------|
|                   |       |         |      |        |                 | HCl          | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> | ICE |          |             | UNPRESSERVED |
| S-35 (1')         |       | 1/24/20 | 1046 | S      | 1               |              |                  |                                                                                       |     |          |             |              |
| S-35 (3')         |       |         | 1047 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-35 (5')         |       |         | 1053 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-35 (10')        |       |         | 1054 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-36 (1')         |       |         | 1104 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-36 (3')         |       |         | 1105 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-36 (5')         |       |         | 1111 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-36 (10')        |       |         | 1112 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-41 (1')         |       |         | 1120 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-41 (3')         |       |         | 1121 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-41 (5')         |       |         | 1130 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-41 (10')        |       |         | 1131 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-38 (1')         |       |         | 1201 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-38 (3')         |       |         | 1202 |        |                 |              |                  |                                                                                       |     |          |             |              |
| S-38 (5')         |       |         | 1203 |        |                 |              |                  |                                                                                       |     |          |             |              |
| TOTAL             | 15    |         |      |        |                 |              |                  |                                                                                       |     |          |             |              |

| RELINQUISHED BY: (Signature) | DATE/TIME      | RECEIVED BY: (Signature) | DATE/TIME      |
|------------------------------|----------------|--------------------------|----------------|
| <u>[Signature]</u>           | <u>1/21/20</u> | <u>[Signature]</u>       | <u>1/21/20</u> |
| RELINQUISHED BY: (Signature) | DATE/TIME      | RECEIVED BY: (Signature) | DATE/TIME      |
| RELINQUISHED BY: (Signature) | DATE/TIME      | RECEIVED BY: (Signature) | DATE/TIME      |
| LABORATORY: <u>XenCo</u>     |                |                          |                |

| TURN AROUND TIME                                    | LABORATORY USE ONLY:                                                                                              |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| NORMAL <input checked="" type="checkbox"/> 5-7 days | RECEIVING TEMP: <u>20</u> THERM: <u>20</u>                                                                        |
| 1 DAY <input type="checkbox"/>                      | CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED |
| 2 DAY <input type="checkbox"/>                      | <input type="checkbox"/> CARRIER BILL #                                                                           |
| OTHER <input type="checkbox"/>                      | <input type="checkbox"/> HAND DELIVERED                                                                           |

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

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

Data Reported to:

DATE: 1/29/2020 PAGE 2 OF 2  
PO#: \_\_\_\_\_ LAB WORK ORDER#: \_\_\_\_\_  
PROJECT LOCATION OR NAME: Blumberry Cat. 1  
LAI PROJECT #: 19-0180-08 COLLECTOR: bs/ec

TRRP report?  
☐ Yes ☒ No

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

TIME ZONE:  
Time zone/State:

MST

Field  
Sample I.D.

Lab #

Date

Time

Matrix

# of Containers

HCl

HNO<sub>3</sub>H<sub>2</sub>SO<sub>4</sub> ☐ NaOH ☐

ICE

UNPRESSERVED

## ANALYSES

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

FIELD NOTES

| 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 | UNPRESSERVED | ANALYSES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FIELD NOTES |
|-------------------|-------|---------|------|--------|-----------------|-----|------------------|---------------------------------------------------------------------------------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| S-39              |       | 1/29/20 | 1212 | S      | 1               |     |                  |                                                                                       |     |              | BTX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH 1005 <input 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>TBLP - METALS (RCRA) <input type="checkbox"/> TOLP 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"/> PETCHLORATE <input type="checkbox"/><br>CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/> |             |
| S-39              |       | 1213    |      |        |                 |     |                  |                                                                                       |     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| S-39              |       | 1217    |      |        |                 |     |                  |                                                                                       |     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| S-39              |       | 1218    |      |        |                 |     |                  |                                                                                       |     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |
| TOTAL             |       |         |      |        |                 |     |                  |                                                                                       |     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |

| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) | DATE/TIME | TURN AROUND TIME                                    | LABORATORY USE ONLY:                                                                                              |
|------------------------------|-----------|--------------------------|-----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY: (Signature) |           | RECEIVED BY: (Signature) |           | NORMAL <input checked="" type="checkbox"/> 5-7 days | RECEIVING TEMP: <u>CC</u> THERM: <u>BB</u>                                                                        |
| RELINQUISHED BY: (Signature) |           | RECEIVED BY: (Signature) |           | 1 DAY <input type="checkbox"/>                      | CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED |
| RELINQUISHED BY: (Signature) |           | RECEIVED BY: (Signature) |           | 2 DAY <input type="checkbox"/>                      | CARRIER BILL # _____                                                                                              |
| LABORATORY:                  |           |                          |           | OTHER <input type="checkbox"/>                      | <input type="checkbox"/> HAND DELIVERED                                                                           |

150799 CHAIN-OF-CUSTODY

Nº 0923





Client: Larson and Associates, Inc.

Date/ Time Received: 01/30/2020 08:44:00 AM

Work Order #: 650799

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)?                           | .6  |
| #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: 01/30/2020

Checklist reviewed by:

Jessica Kramer

Date: 02/03/2020

**Appendix C**  
**BH-1 Soil Log**

## BORING RECORD

| GEOLOGIC UNIT | DEPTH | Start: 11:12 MST<br>Finish: 13:02<br>DESCRIPTION LITHOLOGIC                                                   | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    |  | SAMPLE |             |          | REMARKS |                           |    |
|---------------|-------|---------------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|---|---|---|----|----|----|----|----|--|--------|-------------|----------|---------|---------------------------|----|
|               |       |                                                                                                               |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    |  | NUMBER | PID READING | RECOVERY | DEPTH   | BACKGROUND<br>PID READING |    |
|               |       |                                                                                                               |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |  |        |             |          |         |                           |    |
|               | 0     | Silt, 2.5YR 5/4, Reddish Brown                                                                                | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |    |
|               |       | Caliche, 2.5YR 8/2, Pinkish White                                                                             | Caliche          |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 1                         |    |
|               | 5     | Silty Sand with Subangular Caliche Clast Inclusions, 1.5mm in Diameter, 8.5YR 6/6, Light Red                  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 5                         |    |
|               | 10    |                                                                                                               |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 10                        | 10 |
|               | 15    | Silt, 2.5YR 5/6, Red, Moderately Sorted, Subrounded Clast Inclusions, 1-6mm in Diameter                       | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 15                        | 15 |
|               | 20    |                                                                                                               |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 20                        | 20 |
|               | 25    | Silt, 2.5YR 6/6, Light Red, Well Sorted                                                                       |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 25                        | 25 |
|               | 30    | Caliche, 2.5YR 8/2, Light Pink                                                                                | Caliche          |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 30                        | 30 |
|               | 35    | Silty Sand, 2.5YR 6/6, Light Red, Well Sorted                                                                 | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 35                        | 35 |
|               | 40    | Sand, Medium to Fine, Subrounded Clast Inclusions, 1-3mm in Diameter, Moderately Sorted, 2.5YR 6/6, Light Red | SP               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 40                        | 40 |
|               | 45    | Silty Sand, 2.5YR 6/6, Light Red, Well Sorted                                                                 | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         | 45                        | 45 |

|  |                              |  |                                |                                          |
|--|------------------------------|--|--------------------------------|------------------------------------------|
|  | ONE CONTINUOUS AUGER SAMPLER |  | WATER TABLE ( TIME OF BORING ) | JOB NUMBER : <u>19-0180-08 / Chevron</u> |
|  | STANDARD PENETRATION TEST    |  | LABORATORY TEST LOCATION       | HOLE DIAMETER : <u>2"</u>                |
|  | UNDISTURBED SAMPLE           |  | PENETROMETER ( TONS/ SQ. FT )  | LOCATION : <u>Blinebry SAT 1</u>         |
|  | WATER TABLE ( 24 HRS )       |  | NR NO RECOVERY                 | LAI GEOLOGIST : <u>R. Owen</u>           |

|                                                            |                                |                             |                                     |
|------------------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| <br>Larson & Associates, Inc.<br>Environmental Consultants | DRILL DATE : <u>03-02-2020</u> | BORING NUMBER : <u>BH-1</u> | DRILLING CONTRACTOR : <u>SDI</u>    |
|                                                            |                                |                             | DRILLING METHOD : <u>Air Rotary</u> |

## BORING RECORD

| GEOLOGIC UNIT | DEPTH | Start: 11:12 MST<br>Finish: 13:02<br>DESCRIPTION LITHOLOGIC | DESCRIPTION USCS | GRAPHIC LOG | PID READING |   |   |   |    |    |    |    |    |                  | SAMPLE |             |          | REMARKS |                           |
|---------------|-------|-------------------------------------------------------------|------------------|-------------|-------------|---|---|---|----|----|----|----|----|------------------|--------|-------------|----------|---------|---------------------------|
|               |       |                                                             |                  |             | PPM X _____ |   |   |   |    |    |    |    |    |                  | NUMBER | PID READING | RECOVERY | DEPTH   | BACKGROUND<br>PID READING |
|               |       |                                                             |                  |             | 2           | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | SOIL : _____ PPM |        |             |          |         |                           |
|               | 50    |                                                             | ML               |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 60    |                                                             |                  |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 70    | Sand, Medium to Fine, 2.5YR 5/6, Red                        |                  |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 80    |                                                             | SP               |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 90    |                                                             |                  |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 100   |                                                             |                  |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |
|               | 110   | TD: 104.5'<br>*Dry After 48 Hours                           |                  |             |             |   |   |   |    |    |    |    |    |                  |        |             |          |         |                           |



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 )



NR NO RECOVERY

JOB NUMBER : 19-0180-08 / Chevron

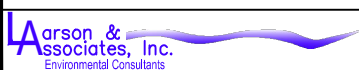
HOLE DIAMETER : 2"

LOCATION : Blinebry SAT 1

LAI GEOLOGIST : R. Owen

DRILLING CONTRACTOR : SDI

DRILLING METHOD : Air Rotary



DRILL DATE :

03-02-2020

BORING NUMBER :

BH-1

## **Appendix D**

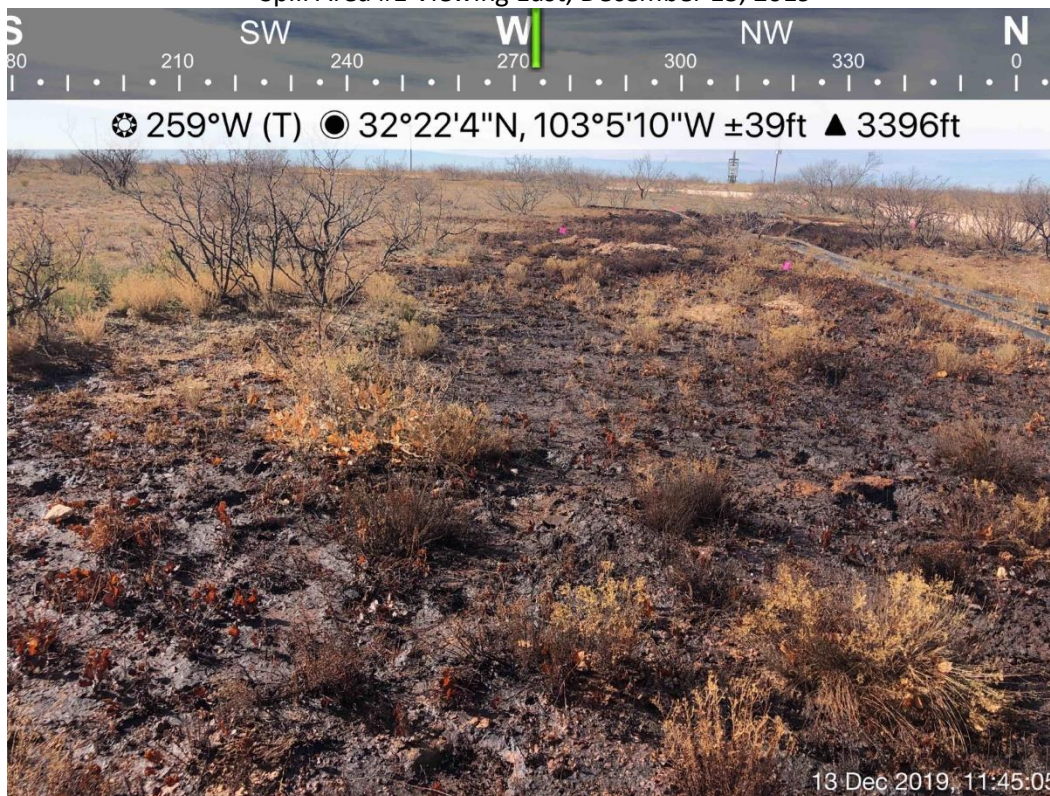
### **Photographs**



nPAC0613753668  
Chevron USA, Inc., Blinbry Sat.#1  
3/18/2020



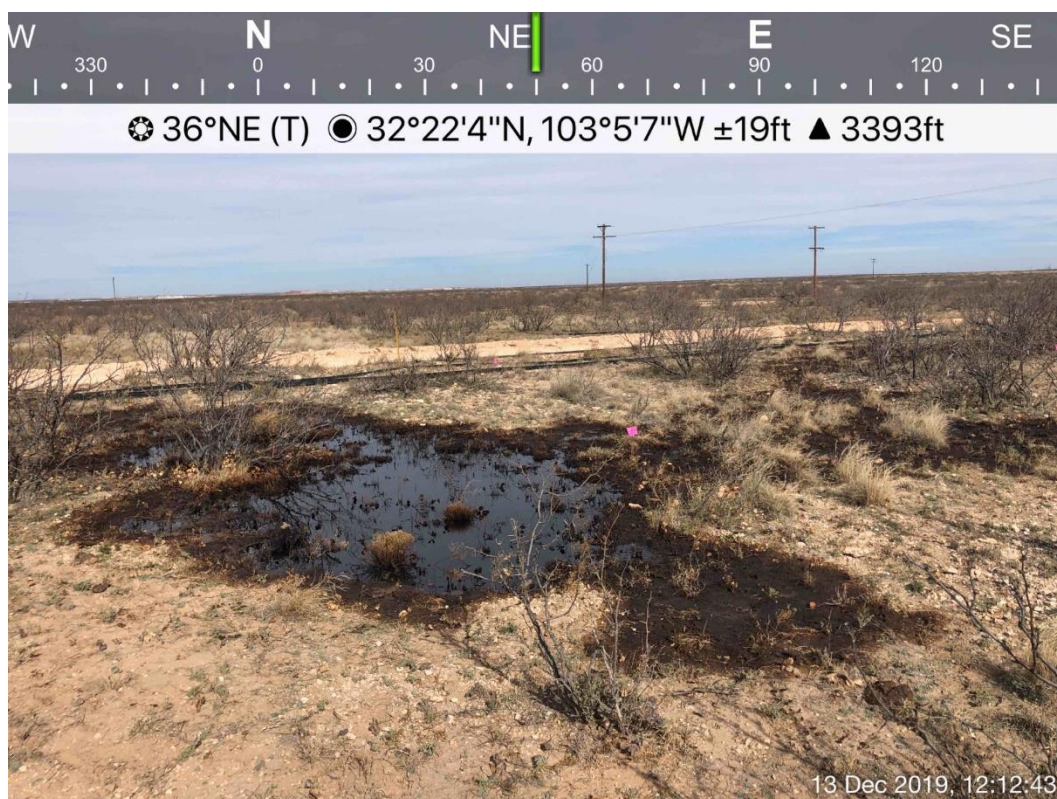
Spill Area #1 Viewing East, December 13, 2019



Spill Area #1 Viewing West, December 13, 2019



nPAC0613753668  
Chevron USA, Inc., Blinebry Sat. #1  
3/18/2020



Spill Area #1 Viewing Northeast, December 13, 2019



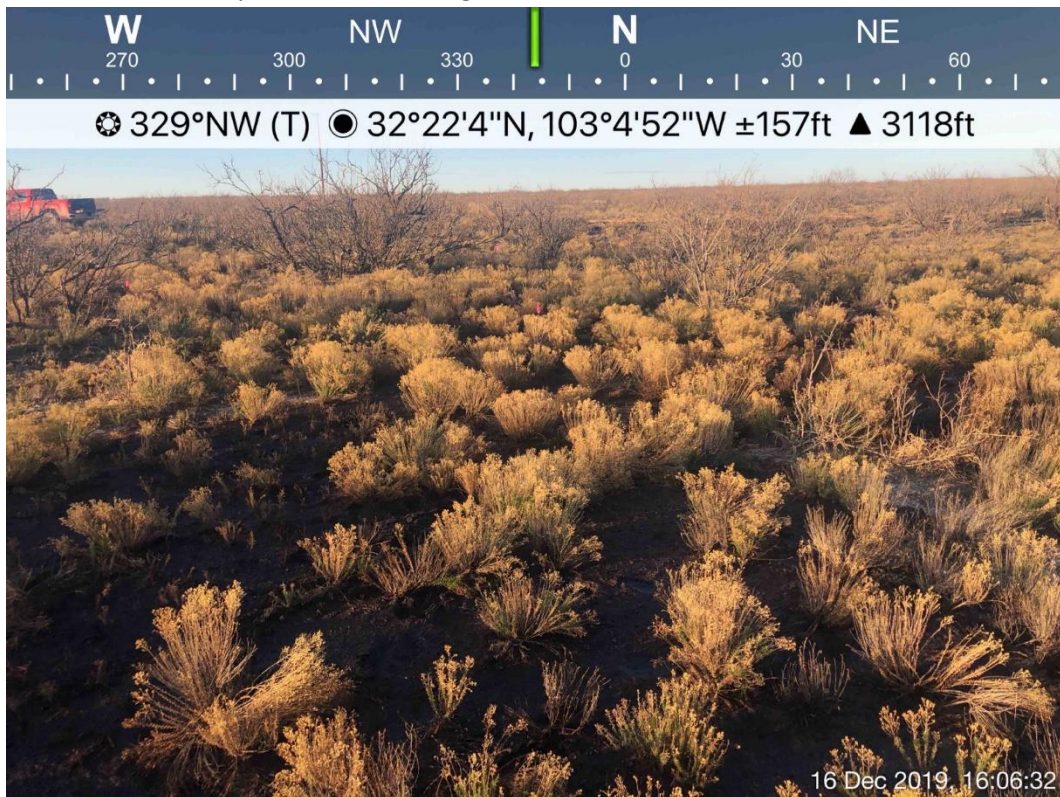
Spill Area #1 Viewing Northwest, December 13, 2019



nPAC0613753668  
Chevron USA, Inc., Blinbry Sat.#1  
3/18/2020



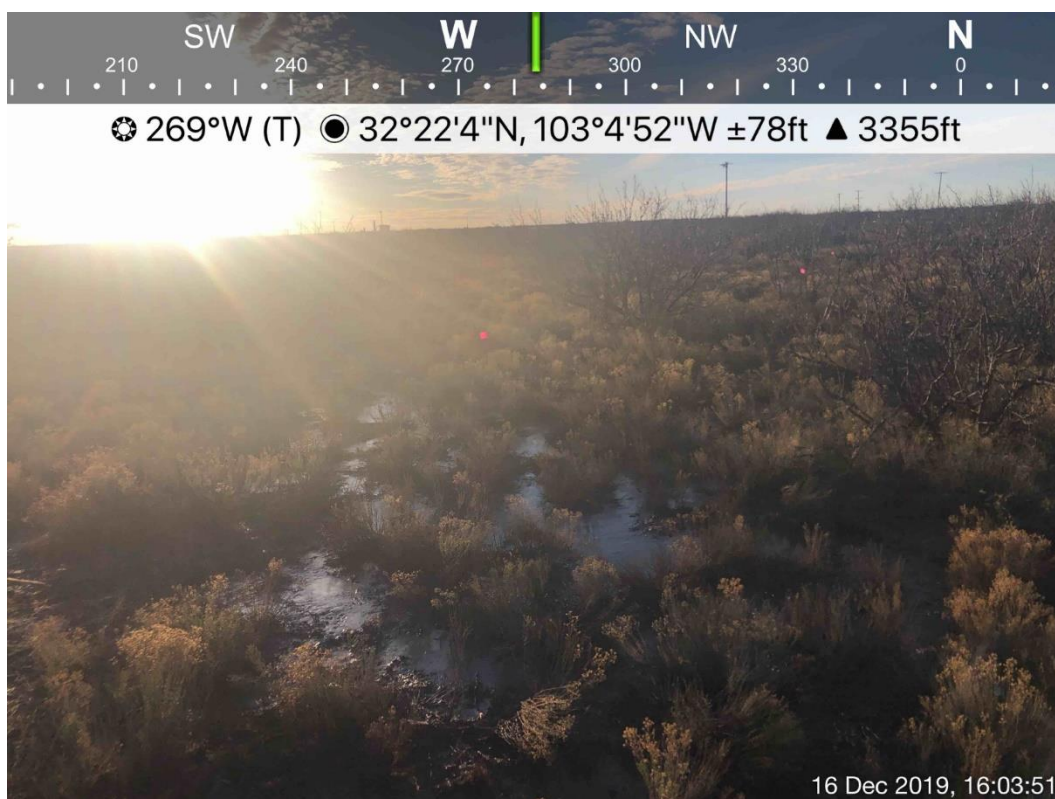
Spill Area #1 Viewing Southeast, December 13, 2019



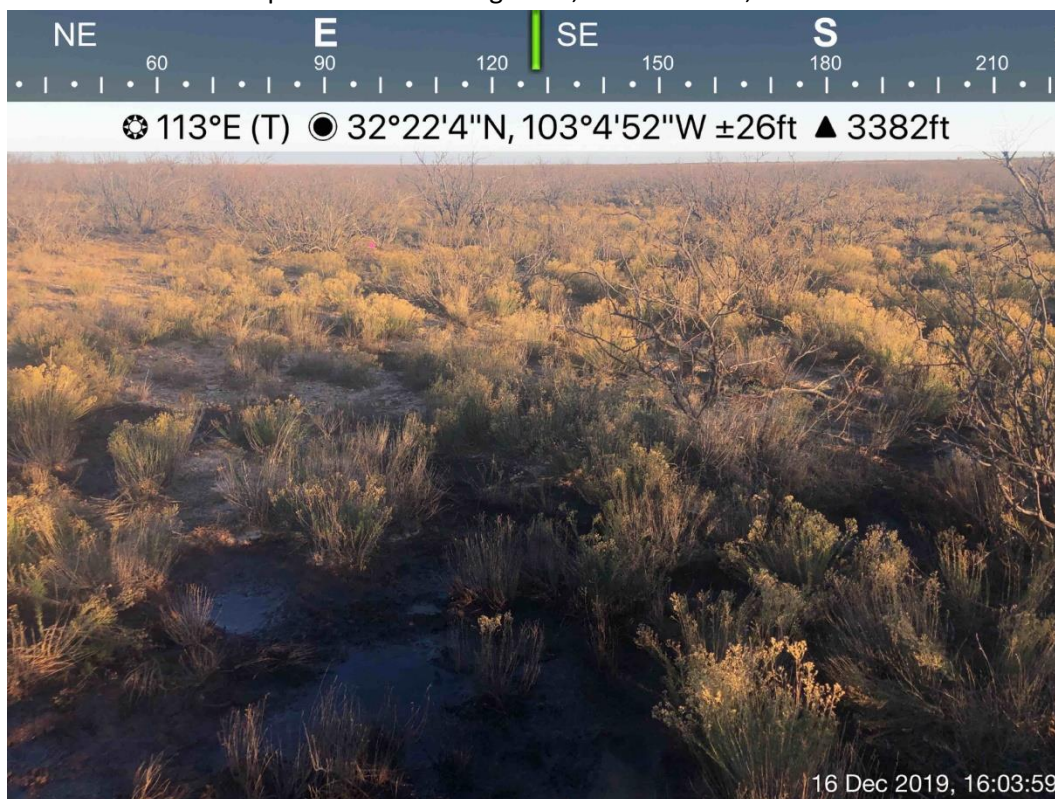
Spill Area #2 Viewing North, December 16, 2019



nPAC0613753668  
Chevron USA, Inc., Blinebry Sat. #1  
3/18/2020



Spill Area #2 Viewing West, December 16, 2019



Spill Area #2 Viewing Southeast, December 16, 2019

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

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

CONDITIONS  
  
Action 4749

CONDITIONS OF APPROVAL

|              |                   |                     |                  |        |      |                |      |              |           |
|--------------|-------------------|---------------------|------------------|--------|------|----------------|------|--------------|-----------|
| Operator:    | CHEVRON U S A INC | 6301 Deauville Blvd | Midland, TX79706 | OGRID: | 4323 | Action Number: | 4749 | Action Type: | C-141     |
| OCD Reviewer |                   |                     |                  |        |      |                |      |              | Condition |
| ceads        |                   |                     |                  |        |      |                |      |              | None      |