

## SITE INFORMATION

### Report Type: Work Plan NRM1935733118

#### General Site Information:

|                             |   |         |       |              |  |  |
|-----------------------------|---|---------|-------|--------------|--|--|
| Site:                       | EVGSAU 2437-001 Flowline Release (near EVGSAU Satellite #1 Facility)  |         |       |              |  |  |
| Company:                    | ConocoPhillips  |         |       |              |  |  |
| Section, Township and Range | Unit Letter I&J   | Sec. 19 | T 17S | R 35 E       |  |  |
| Lease Number:               | Associated API No. 30-025-02086   |         |       |              |  |  |
| County:                     | Lea   |         |       |              |  |  |
| GPS:                        | 32.818100°  |         |       | -103.492854° |  |  |
| Surface Owner:              | State   |         |       |              |  |  |
| Mineral Owner:              | State   |         |       |              |  |  |
| Directions:                 | Depart from Hobbs. Head toward S Morris St on E Marland Blvd (US-62/US-180). 15 miles. Turn right onto NM-529. Go 2.4 miles. Turn right onto State Highway 238 (NM-238). Go 9.5 miles. Take a right. Travel on lease road approximate 3/4 mile to Satellite #1 Facility. Release area site is 200' southeast of Satellite #1. |         |       |              |  |  |
|                             |   |         |       |              |  |  |
|                             |   |         |       |              |  |  |
|                             |   |         |       |              |  |  |

#### Release Data:

|                          |                    |  |
|--------------------------|--------------------|--|
| Date Released:           | 10/29/2019         |  |
| Type Release:            | Produced Water/Oil |  |
| Source of Contamination: | Flowline leak      |  |
| Fluid Released:          | 23 bbl             |  |
| Fluids Recovered:        | 10 bbl             |  |

#### Official Communication:

|               |  |  |  |
|---------------|--|--|--|
| Name:         | Marvin Soriwei   |  | Christian M. Llull   |
| Company:      | Conoco Phillips - RMR  |  | Tetra Tech   |
| Address:      | 935 N. Eldridge Pkwy.  |  | 8911 North Capital of Texas Highway  |
|               |  |  | Building 2, Suite 2310   |
| City:         | Houston, Texas 77079   |  | Austin, Texas  |
| Phone number: | (832) 486-2730   |  | (512) 338-2861   |
| Fax:          |  |  |  |
| Email:        | <a href="mailto:marvin.soriwei@conocophillips.com">marvin.soriwei@conocophillips.com</a> |  | <a href="mailto:christian.llull@tetrattech.com">christian.llull@tetrattech.com</a> |

#### Site Characterization

|  |                   |
|--|-------------------|
| Shallowest Depth to Groundwater:                             | 73' below surface |
| Impact to groundwater or surface water:                      | No                |
| Extents within 300 feet of a watercourse:                    | No                |
| Extents within 200 feet of lakebed, sinkhole, or playa lake: | No                |
| Extents within 300 feet of an occupied structure:            | No                |
| Extents within 500 horizontal feet of a private water well:  | No                |
| Extents within 1000 feet of any water well or spring:        | No                |
| Extents within incorporated municipal well field:            | No                |
| Extents within 300 feet of a wetland:                        | No                |
| Extents overlying a subsurface mine:                         | No                |
| Karst Potential:   | Low               |
| Extents within a 100-year floodplain:                        | No                |
| Impact to areas not on a production site:                    | No                |

#### Recommended Remedial Action Levels (RRALs)

| Benzene  | Total BTEX | TPH (GRO+DRO) | TPH (GRO+DRO+MRO) | Chlorides    |
|----------|------------|---------------|-------------------|--------------|
| 10 mg/kg | 50 mg/kg   | 1,000 mg/kg   | 2,500 mg/kg       | 10,000 mg/kg |



November 3, 2020

District Supervisor  
Oil Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Release Characterization and Remediation Work Plan  
ConocoPhillips  
EVGSAU 2437-001 Flowline Release (near EVGSAU Satellite #1 Facility)  
Unit Letters I and J, Section 19, Township 17 South, Range 35 East  
Lea County, New Mexico  
Incident ID# NRM1935733118**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the flowline of the East Vacuum Grayburg-San Andres Unit (EVGSAU) 2437-001 well (API No. 30-025-02086). The release point is located on the EVGSAU 2437-001 flowline, approximately 200 feet southeast of the EVGSAU Satellite #1 facility. The well is located approximately 1.2 miles west-southwest of the release footprint, thus within the C-141 the "Site Name" is listed as Satellite #1. The release footprint is located in Public Land Survey System (PLSS) Unit Letters I and J, Section 19, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.818100°, -103.492854°, as shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), the release was discovered on October 29, 2019 while COP personnel were inspecting the adjacent EVGSAU Satellite #1. Approximately 22.4 barrels (bbls) of produced water and 0.6 bbls of oil were reported released, of which 9.7 bbls of produced water and 0.3 bbls of oil were recovered. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on November 4, 2019. The NMOCD Incident ID for this release is NRM1935733118.

## SITE CHARACTERIZATION

A site characterization was performed and no water bodies, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential, which further decreases the risk for contaminant migration from soil to groundwater.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within a ½ mile (800-meter) radius of the Site. There are seven (7) water wells within a 3/4-mile (1200-meter) radius with an average depth

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to groundwater at 73 feet (ft.) below ground surface (bgs). The site characterization data is included in Appendix B.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, the RRALs for the Site are as follows:

| Constituent           | RRAL         |
|-----------------------|--------------|
| Chloride (0-4 ft bgs) | 600 mg/kg    |
| Chloride (>4 ft bgs)  | 10,000 mg/kg |
| TPH                   | 2,500 mg/kg  |
| BTEX                  | 50 mg/kg     |
| Benzene               | 10 mg/kg     |

## INITIAL RESPONSE AND SITE ASSESSMENT

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin initial remedial response and assessment of the impacted area in late 2019. The release extent was initially identified as an area along the flowline that extends from the EVGSAU 2437-001 lease pad to the EVGSAU Satellite #1 facility. The release point is located approximately 200 feet southeast of the flowline header at the Satellite facility. The visibly impacted soil in the release footprint was excavated by COP personnel with heavy equipment to approximately 1.5 feet bgs to remove the impacted surface soils. Figure 3 depicts the release extent and the excavated area. Visibly impacted soil was excavated from an area equaling approximately 1,400 square feet during initial response activities

In December of 2019, following initial response activities, COP collected twenty-four (24) soil samples from fifteen (15) locations within and surrounding the excavation area. Sample locations included both vertical assessment and confirmation sidewall locations. Sample locations are shown on Figure 3. These soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico and analyzed for chloride via EPA Method SM4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results associated with nine (9) of the soil samples exceeded the reclamation RRAL of 600 mg/kg for chloride from 0-4 feet bgs. The analytical results associated with the majority of the soil samples exceeded the reclamation concentration for TPH (100 mg/kg) in the upper four feet. In addition, analytical results associated with the SP#5 location exceeded the TPH RRAL of 2,500 mg/kg at a depth of 5 feet bgs. Analytical results associated with sidewall sample locations Wall #5 and Wall #6 exceeded the Total BTEX RRAL of 50 mg/kg. All other sample results were below the Site RRALs for BTEX. Analytical results from the BG#1 through BG#4 provide north and south horizontal delineation of the release extent. Sample results from the initial soil assessment are summarized in Table 1. A copy of the analytical laboratory report and chain-of-custody documentation are included in Appendix C.

## ADDITIONAL SITE ASSESSMENT/DELINEATION

On March 11, 2020, Tetra Tech visited the release Site to visually inspect the release area, assess current conditions, and map the excavated extents from the initial response activities. The approximate release extent, analytical data and sample locations were provided to Tetra Tech prior to the site visit.

During the visit, an approximate 60-ft by 30-ft area was observed to have been excavated to roughly 1.5 feet below the surrounding surface grade. (Figure 3). Photographic documentation from the March 2020 site visit is included in Appendix D.

Complete horizontal and vertical delineation of the release was not achieved during the initial response and assessment. In order to attempt to achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling on July 16, 2020 on behalf of ConocoPhillips. A total of five (5) borings (BH-1 through BH-5) were installed using an air rotary drilling rig. Two (2) borings (BH-1 and BH-2) were installed within the release extent to depths of 22 and 17 feet bgs, respectively, to achieve vertical delineation. Two borings (BH-3 and BH-4) were installed along the northwest and southeast perimeter of the release extent (to the northwest and southeast, respectively) to depths of 10 feet bgs to achieve horizontal delineation. Boring BH-5 was installed further to the northeast to provide background data. Boring logs from the July 2020 assessment activities are included in Appendix E.

A total of twenty-eight (28) samples were collected from the five (5) borings and submitted to Pace Analytical (Pace) in Nashville, Tennessee. The samples were analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Boring locations are shown in Figure 4. Select photos of the site assessment field activities are included in Appendix D.

## ADDITIONAL SITE DELINEATION

To achieve additional horizontal delineation of the release extent to the west, Tetra Tech personnel returned to the Site on August 20, 2020 to conduct additional soil sampling on behalf of ConocoPhillips. A total of two (2) additional borings (BH-6 and BH-7) were installed with a hand auger to the west of boring BH-3.

A total of four (4) samples were collected and submitted to Pace and again analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix C. Boring locations are shown in Figure 4.

## SUMMARY OF SAMPLING RESULTS

Results from the July and August 2020 site assessment events are summarized in Table 2. Analytical results associated with the BH-1 and BH-2 locations (drilled inside the previously excavated area) exceeded the TPH reclamation RRAL of 100 mg/kg in the uppermost 2-3' sample interval. Analytical results associated with the BH-1 (2-3') and BH-3 (2-3') exceeded the reclamation RRAL of 600 mg/kg chloride from 0-4 feet bgs. All analytical results were below the benzene and Total BTEX Site RRALs of 10 mg/kg and 50 mg/kg, respectively.

Soil borings BH-1 and BH-2 vertically delineate soil impacts within the footprint of the release area. Soil borings BH-4, BH-5, BH-6 and BH-7 successfully delineated horizontal impacts to the south, east, and north. Initial assessment sample locations BG#1 through BG#4 provide north and south horizontal delineation of the release extent.

## REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Most of the area will be excavated to 4' bgs. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 5 feet bgs, or until a representative sample from the walls and bottom of the excavation are below the RRALs. The areas of the release extent that contain steel surface lines or are adjacent to these lines will be hand-dug to the maximum extent practicable and heavy equipment will come no more than 3 ft from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities and analyzed for chlorides, TPH, and BTEX. Once results are received, NMOCD will be notified and the



excavation will then be backfilled with clean material to surface grade. The estimated areal extent of the proposed excavation encompasses a surface area of approximately 2,215 square feet resulting in an estimated additional 245 cubic yards volume of material to be removed.

### ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Six (6) confirmation floor samples and eleven (11) confirmation sidewall samples are proposed for verification of remedial activities.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of chloride, TPH, and BTEX. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

### SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas will be seeded in Spring 2021 (first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix F.

### CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,

**Tetra Tech, Inc.**



Christian M. Llull, P.G.  
Project Manager



Greg W. Pope, P.G.  
Program Manager

cc:

Mr. Marvin Soriwei, RMR – ConocoPhillips  
Mr. Charles Beauvais, GPBU - ConocoPhillips

## LIST OF ATTACHMENTS

### Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Initial Site Assessment Map
- Figure 4 – Additional Release Assessment Map
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Alternative Confirmation Sampling Plan

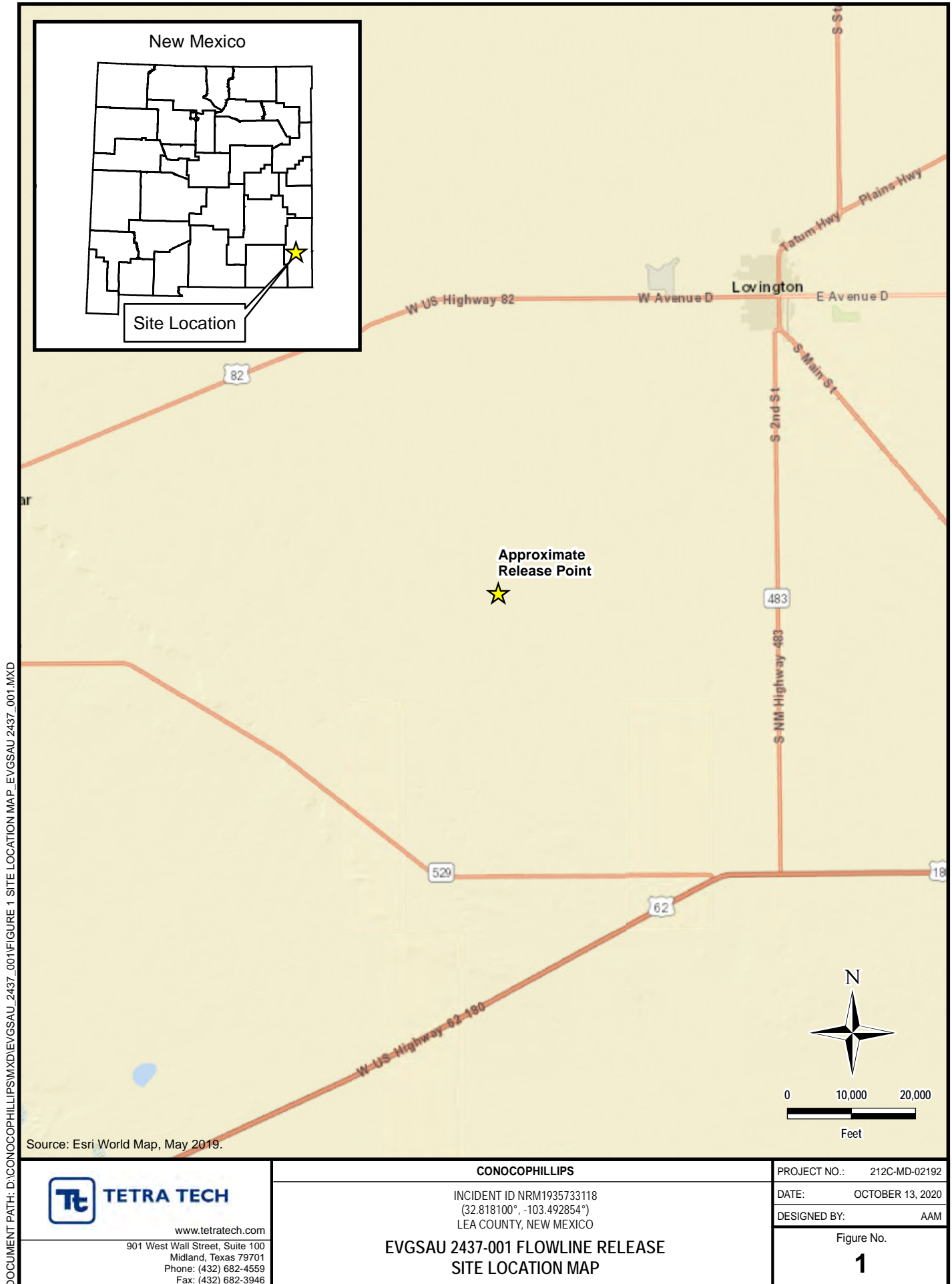
### Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

### Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Soil Boring Logs
- Appendix E – Photographic Documentation
- Appendix F – NMSLO Seed Mixture Details

## **FIGURES**



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**CONOCOPHILLIPS**

INCIDENT ID NRM1935733118  
(32.818100°, -103.492854°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 2437-001 FLOWLINE RELEASE  
SITE LOCATION MAP**

PROJECT NO.: 212C-MD-02192

DATE: OCTOBER 13, 2020

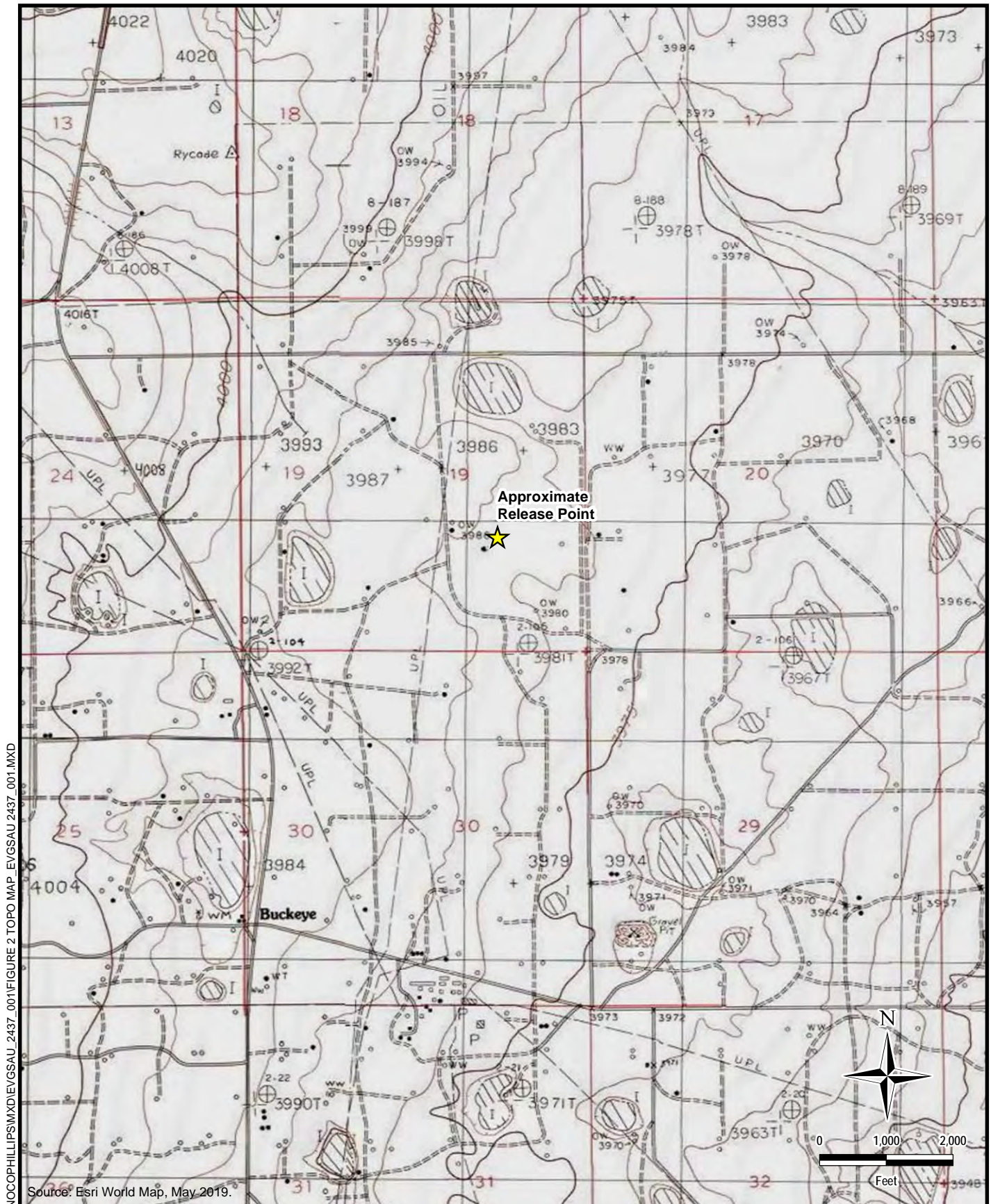
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Figure No.

**1**

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU\_2437\_001\FIGURE 1 SITE LOCATION MAP EVGSAU 2437\_001.MXD





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**CONOCOPHILLIPS**

 INCIDENT ID NRM1935733118  
 (32.818100°, -103.492854°)  
 LEA COUNTY, NEW MEXICO

**EVGSAU 2437-001 FLOWLINE RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02192

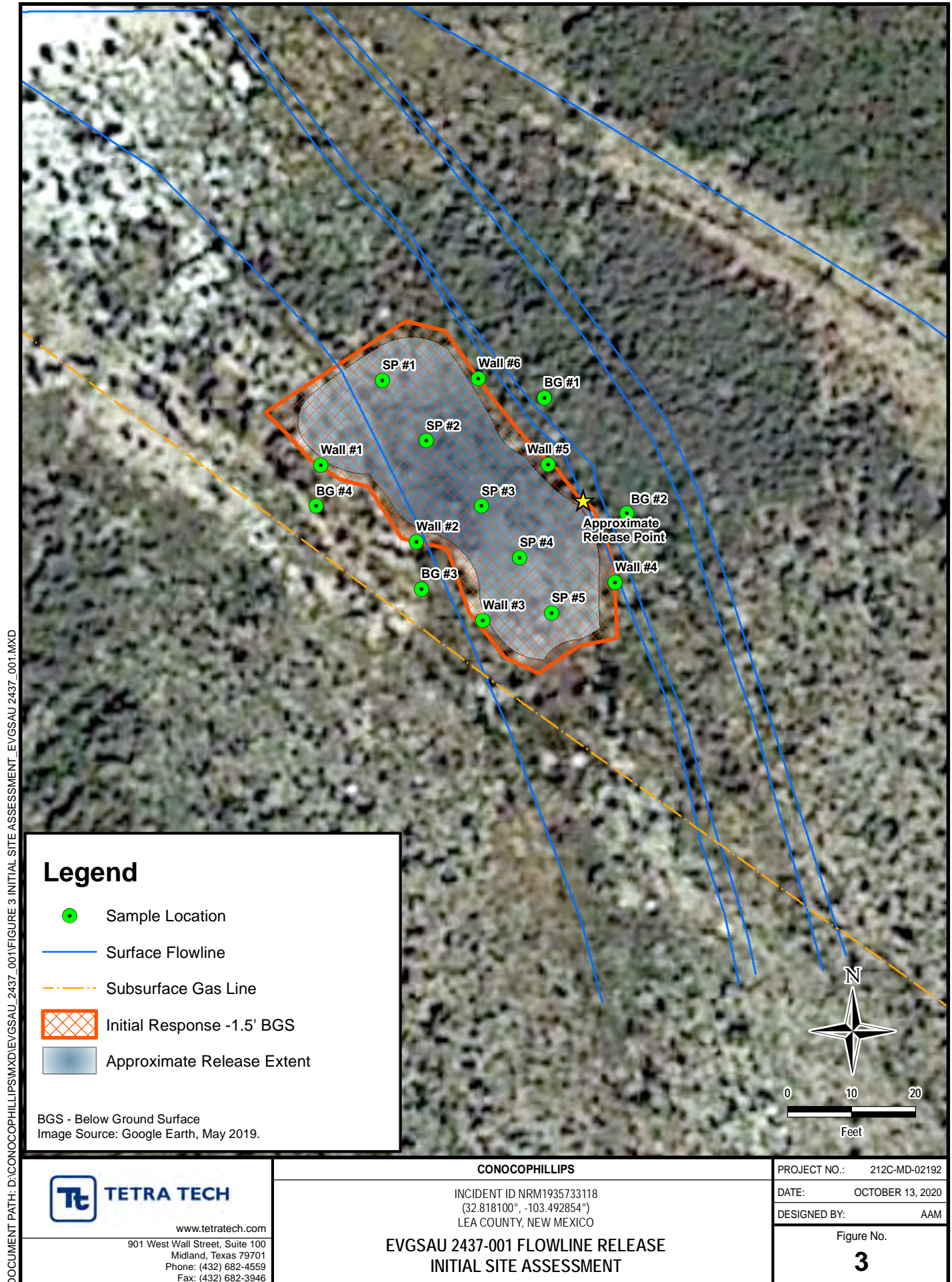
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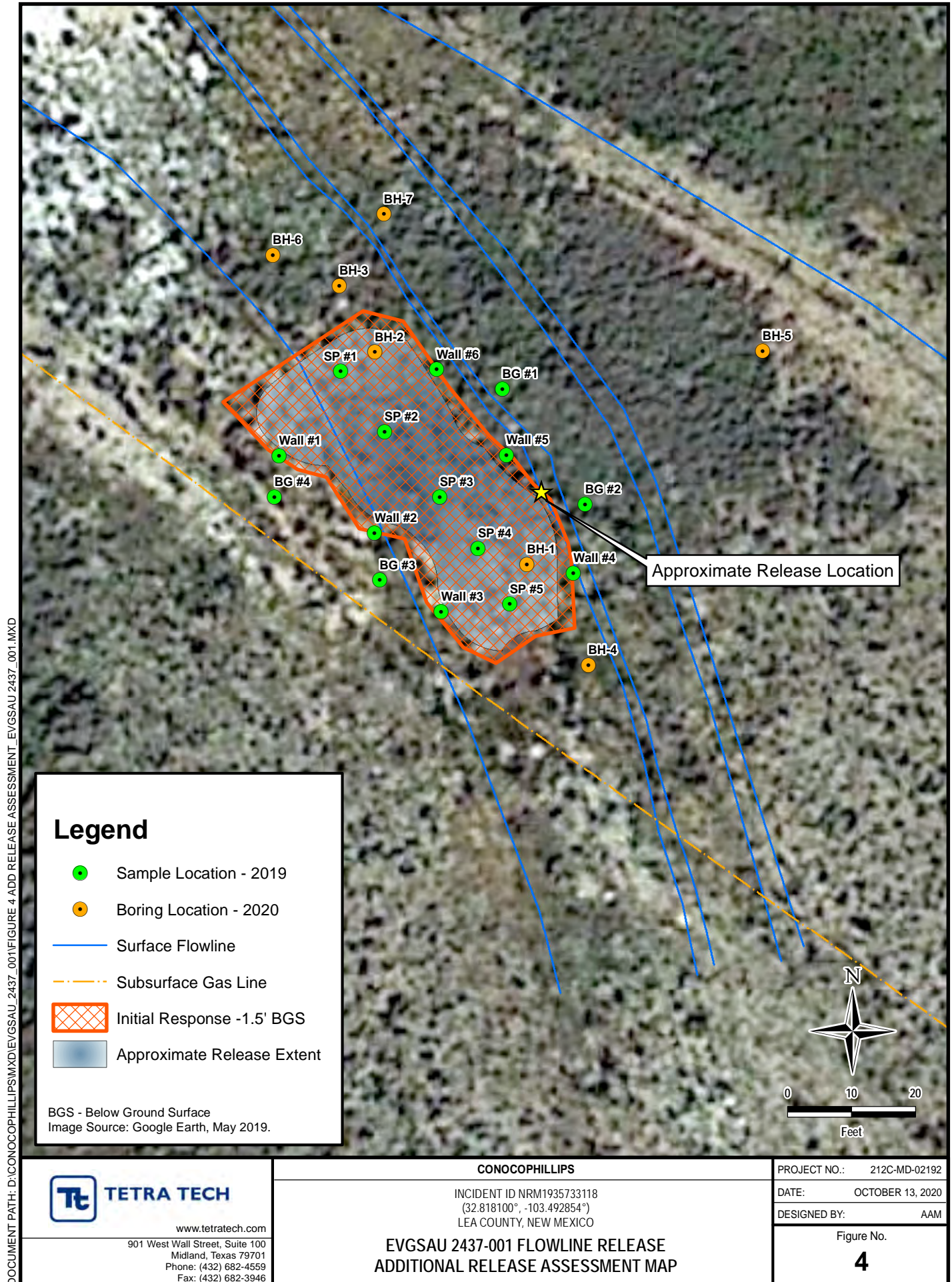
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**1**

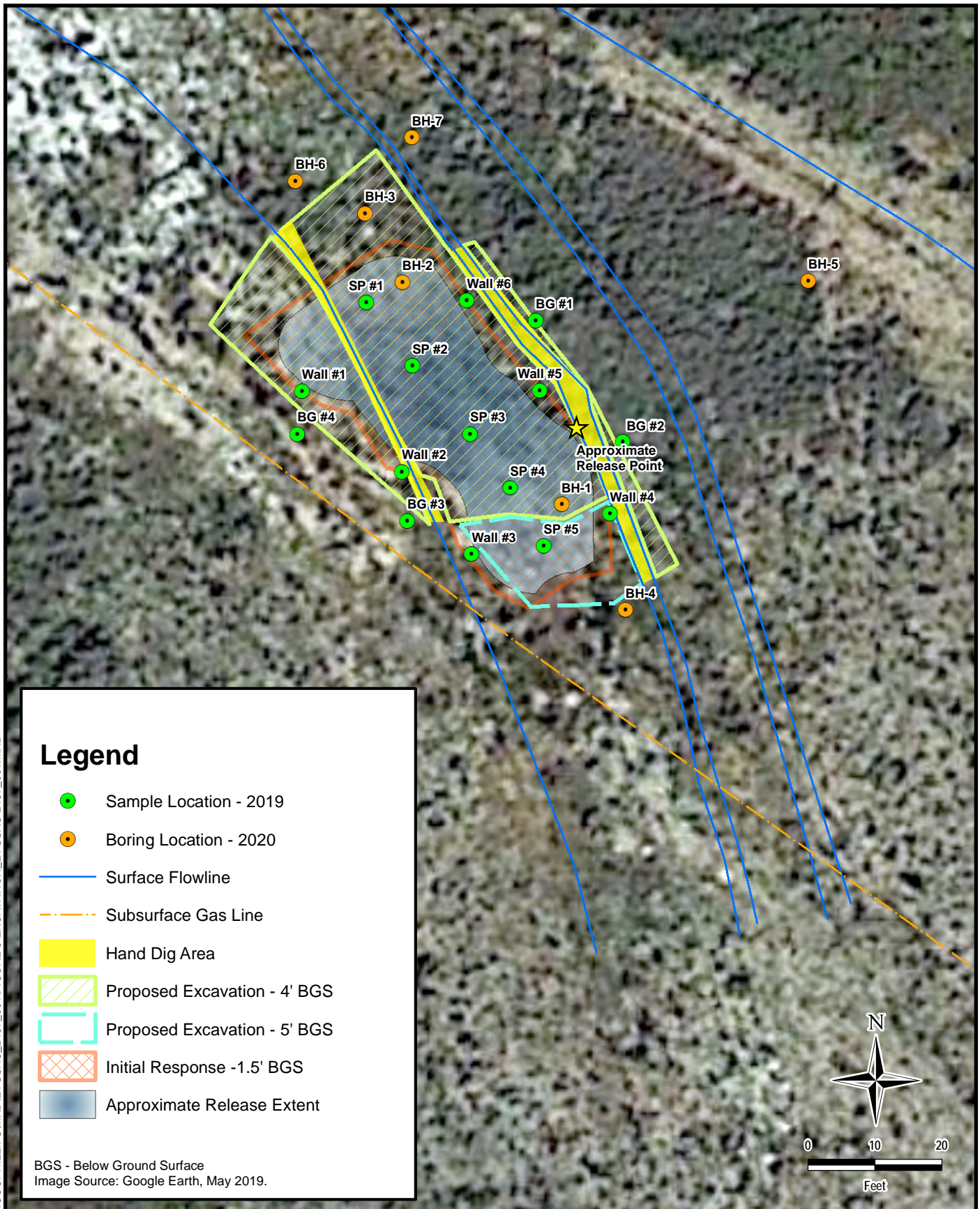












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**CONOCOPHILLIPS**

INCIDENT ID NRM1935733118  
(32.818100°, -103.492854°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 2437-001 FLOWLINE RELEASE  
PROPOSED REMEDIATION EXTENT**

PROJECT NO.: 212C-MD-02192

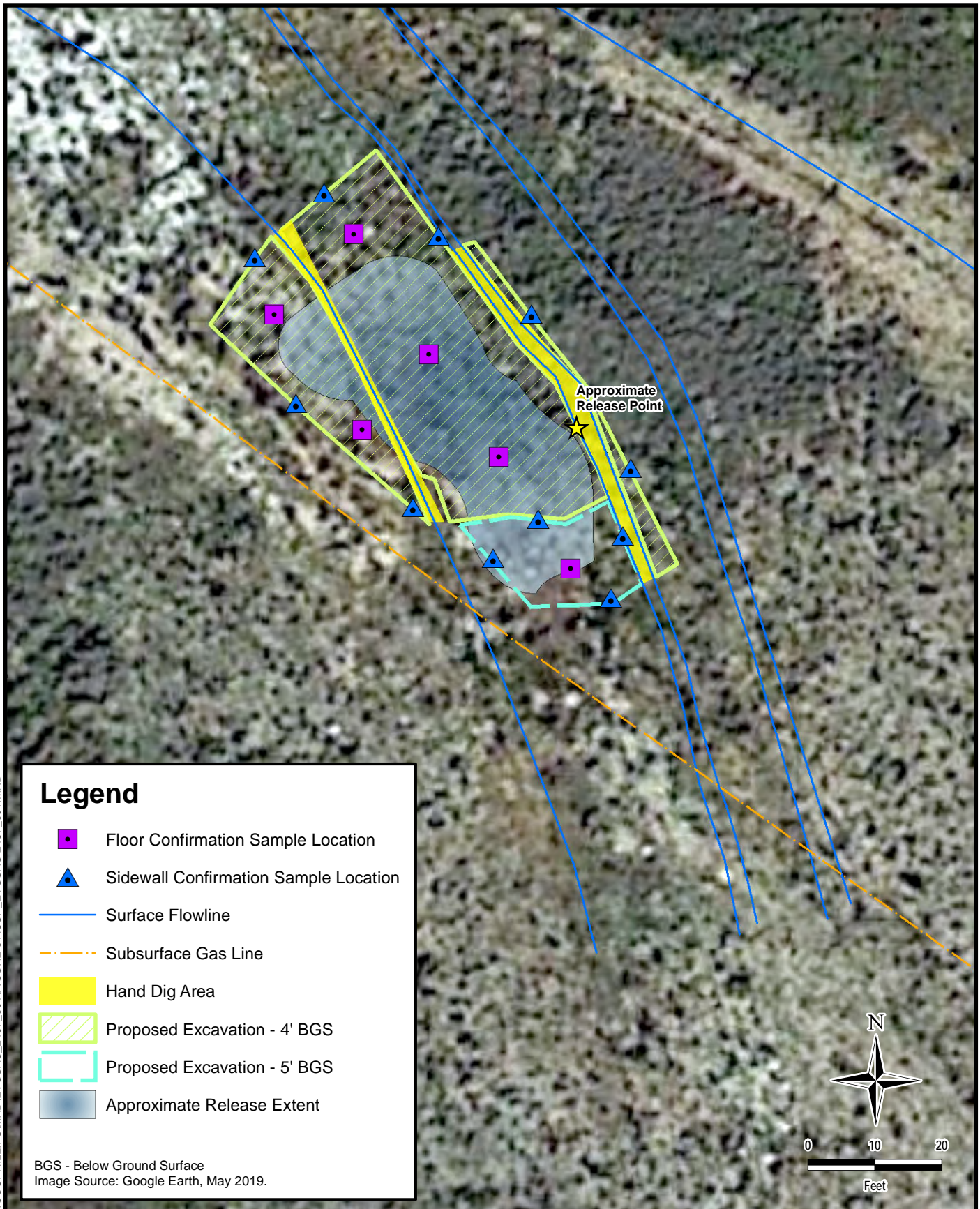
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Figure No.

**5**





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU\_2437\_001\FIGURE 6 ACSP\_EVGSAU 2437\_001.MXD

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**CONOCOPHILLIPS**

INCIDENT ID NRM1935733118  
(32.818100°, -103.492854°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 2437-001 FLOWLINE RELEASE  
ALTERNATIVE CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-02192

DATE: OCTOBER 20, 2020

DESIGNED BY: AAM

Figure No.

**6**

## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
INITIAL SOIL ASSESSMENT  
CONOCOPHILLIPS  
EVSGAU 2437-001 FLOWLINE RELEASE: NRM1935733118  
LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth | Chloride <sup>1</sup> |       | BTEX <sup>2</sup> |   |         |   |              |   |               |   |            |   | TPH <sup>3</sup> |   |        |   |         |   |           |
|-----------|-------------|--------------|-----------------------|-------|-------------------|---|---------|---|--------------|---|---------------|---|------------|---|------------------|---|--------|---|---------|---|-----------|
|           |             |              |                       |       | Benzene           |   | Toluene |   | Ethylbenzene |   | Total Xylenes |   | Total BTEX |   | GRO <sup>4</sup> |   | DRO    |   | EXT DRO |   | Total TPH |
|           |             | ft. bgs      | mg/kg                 | Q     | mg/kg             | Q | mg/kg   | Q | mg/kg        | Q | mg/kg         | Q | mg/kg      | Q | mg/kg            | Q | mg/kg  | Q | mg/kg   | Q |           |
| SP #1     | 12/4/2019   | 2            | 2560                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | 283    |   | 59.7    |   | 343       |
|           |             | 4            | 4000                  |       | < 0.050           |   | 0.245   |   | 1.87         |   | 5.96          |   | 62.1       |   | 726              |   | 132    |   | 858     |   |           |
| SP #2     | 12/4/2019   | 2            | 2760                  |       | < 0.050           |   | 0.205   |   | 1.28         |   | 3.55          |   | 5.03       |   | 256              |   | 12500  |   | 2590    |   | 15346     |
|           |             | 4            | 3440                  |       | < 0.500           |   | 1.51    |   | 4.20         |   | 7.62          |   | 13.3       |   | 126              |   | 1550   |   | 303     |   | 1979      |
| SP #3     | 12/4/2019   | 2            | 2960                  | QM-07 | < 0.050           |   | 0.721   |   | 3.48         |   | 9.02          |   | 13.2       |   | 341              |   | 18100  |   | 3480    |   | 21580     |
|           |             | 4            | 1860                  |       | < 0.050           |   | 0.887   |   | 5.60         |   | 11.7          |   | 18.2       |   | 296              |   | 4970   |   | 916     |   | 5886      |
| SP #4     | 12/4/2019   | 3            | 2840                  |       | < 0.050           |   | 0.124   |   | 0.953        |   | 2.94          |   | 4.02       |   | 207              |   | 7450   |   | 1520    |   | 9177      |
|           |             | 5            | 4400                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | 512    |   | 192     |   | 704       |
| SP #5     | 12/4/2019   | 3            | 3400                  |       | 0.115             |   | 4.71    |   | 9.83         |   | 23.1          |   | 37.8       |   | 640              |   | 8810   |   | 1560    |   | 10370     |
|           |             | 5            | 1260                  |       | < 0.050           |   | 0.399   |   | 0.966        |   | 1.53          |   | 2.90       |   | 144              |   | 6180   |   | 1020    |   | 7200      |
| Wall #1   | 12/4/2019   | ~1           | 1360                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | 89.4   |   | 60.0    |   | 149       |
| Wall #2   | 12/4/2019   | ~1           | 8000                  |       | < 0.050           |   | < 0.050 |   | 0.058        |   | 0.155         |   | < 0.300    |   | 10.3             |   | 109    |   | 22.2    |   | 131       |
| Wall #3   | 12/4/2019   | ~1           | 48.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
| Wall #4   | 12/4/2019   | ~1           | 1500                  |       | < 0.050           |   | < 0.050 |   | 0.573        |   | 4.15          |   | 4.72       |   | 280              |   | 7040   |   | 1210    |   | 8250      |
| Wall #5   | 12/4/2019   | ~1           | 112.0                 |       | < 0.050           |   | 19.3    |   | 64.3         |   | 124           |   | 207        |   | 3900             |   | 36500  |   | 5710    |   | 42210     |
| Wall #6   | 12/4/2019   | ~1           | 1060                  |       | < 0.050           |   | 4.94    |   | 21.0         |   | 41.0          |   | 66.9       |   | 1080             |   | 9100   |   | 1290    |   | 10390     |
| BG #1     | 12/4/2019   | surface      | 16.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
|           |             | 2            | < 16.0                |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
| BG #2     | 12/4/2019   | surface      | < 16.0                |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
|           |             | 2            | 16.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
| BG #3     | 12/4/2019   | surface      | 16.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
|           |             | 2            | 48.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
| BG #4     | 12/4/2019   | surface      | 16.0                  |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |
|           |             | 2            | < 16.0                |       | < 0.050           |   | < 0.050 |   | < 0.050      |   | < 0.150       |   | < 0.300    |   | < 10.0           |   | < 10.0 |   | < 10.0  |   | <30.0     |

## NOTES:

ft. Feet  
bgs Below ground surface  
ppm Parts per million  
mg/kg Milligrams per kilogram  
TPH Total Petroleum Hydrocarbons  
GRO Gasoline range organics  
DRO Diesel range organics  
1 Method SM4500Cl-B  
2 Method 8260B  
3 Method 8015M

***Bold and italicized values indicate exceedance of proposed RRALs***

Shaded rows indicate depth intervals proposed for excavation and remediation.

## QUALIFIERS:

QM-07 The spike recovery was outside acceptance limits for MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT - NRM1935733118  
CONOCOPHILLIPS  
EVGSAU 2437-001 FLOWLINE RELEASE  
LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results |     | Chloride <sup>1</sup> |   | BTEX <sup>2</sup> |   |           |   |              |   |               |   |            |                  | TPH <sup>3</sup> |        |   |                                  |   |                         |                                   |   |
|-----------|-------------|-----------------------|-------------------------|-----|-----------------------|---|-------------------|---|-----------|---|--------------|---|---------------|---|------------|------------------|------------------|--------|---|----------------------------------|---|-------------------------|-----------------------------------|---|
|           |             |                       | Chloride                | PID |                       |   | Benzene           |   | Toluene   |   | Ethylbenzene |   | Total Xylenes |   | Total BTEX | GRO <sup>4</sup> |                  | DRO    |   | ORO                              |   | Total TPH (GRO+DRO+ORO) |                                   |   |
|           |             |                       |                         |     |                       |   | mg/kg             | Q | mg/kg     | Q | mg/kg        | Q | mg/kg         | Q |            | mg/kg            | Q                | mg/kg  | Q | C <sub>3</sub> - C <sub>10</sub> | Q |                         | C <sub>10</sub> - C <sub>28</sub> | Q |
|           |             | ft. bgs               | ppm                     |     | mg/kg                 | Q | mg/kg             | Q | mg/kg     | Q | mg/kg        | Q | mg/kg         | Q | mg/kg      |                  |                  |        |   |                                  |   |                         |                                   |   |
| BH-1      | 7/16/2020   | 2-3                   | 300                     | 394 | 736                   |   | < 0.00104         |   | < 0.00519 |   | < 0.00260    |   | 0.00139       | J | 0.00139    | < 0.104          |                  | 347    |   | 381                              |   | 728                     |                                   |   |
|           |             | 4-5                   | 800                     | 20  | 1080                  |   | < 0.00108         |   | < 0.00542 |   | < 0.00271    |   | 0.00108       | J | 0.00108    | < 0.108          |                  | 3.51   | J | 2.03                             | J | 5.54                    |                                   |   |
|           |             | 6-7                   | 780                     | 0.0 | 754                   |   | < 0.00104         |   | < 0.00521 |   | < 0.00260    |   | 0.00248       | J | 0.00248    | < 0.104          |                  | < 4.17 |   | 0.944                            | J | 0.944                   |                                   |   |
|           |             | 8-9                   | 2500                    | 0.0 | 3410                  |   | < 0.00108         |   | < 0.00539 |   | < 0.00269    |   | < 0.00700     |   | -          | < 0.108          |                  | 2.25   | J | 0.986                            | J | 3.24                    |                                   |   |
|           |             | 11-12                 | 2600                    | 0.0 | 1210                  |   | < 0.00103         |   | < 0.00513 |   | < 0.00256    |   | < 0.00667     |   | -          | < 0.103          |                  | 2.70   | J | 1.84                             | J | 4.54                    |                                   |   |
|           |             | 16-17                 | > 4000                  | 0.0 | 5890                  |   | < 0.00125         |   | < 0.00624 |   | < 0.00312    |   | < 0.00811     |   | -          | < 0.112          |                  | 2.29   | J | < 4.50                           |   | 2.29                    |                                   |   |
|           |             | 21-22                 | 450                     | 0.0 | 543                   |   | < 0.00105         |   | < 0.00526 |   | < 0.00263    |   | < 0.00684     |   | -          | < 0.105          |                  | 3.61   | J | 1.67                             | J | 5.28                    |                                   |   |
| BH-2      | 7/16/2020   | 2-3                   | 400                     | 0.0 | 446                   |   | < 0.00102         |   | < 0.00509 |   | < 0.00254    |   | < 0.00661     |   | -          | < 0.102          |                  | 286    |   | 294                              |   | 580                     |                                   |   |
|           |             | 4-5                   | 800                     | 0.0 | 674                   |   | < 0.00109         |   | < 0.00543 |   | < 0.00272    |   | 0.00696       | J | 0.00696    | < 0.109          |                  | < 4.34 |   | 0.449                            | J | 0.449                   |                                   |   |
|           |             | 6-7                   | 950                     | 0.0 | 912                   |   | < 0.00106         |   | < 0.00528 |   | < 0.00264    |   | < 0.00687     |   | -          | 0.0372           | B J              | < 4.23 |   | 0.552                            | J | 0.589                   |                                   |   |
|           |             | 8-9                   | 875                     | 0.0 | 846                   |   | < 0.00103         |   | < 0.00517 |   | 0.000767     | J | 0.00115       | J | 0.00192    | 0.0389           | B J              | < 4.14 |   | 0.416                            | J | 0.455                   |                                   |   |
|           |             | 11-12                 | 1100                    | 0.0 | 1210                  |   | < 0.00106         |   | < 0.00530 |   | < 0.00265    |   | 0.00332       | J | 0.00332    | 0.0391           | B J              | < 4.24 |   | 0.791                            | J | 0.830                   |                                   |   |
|           |             | 16-17                 | 150                     | 0.0 | 160                   |   | < 0.00110         |   | < 0.00548 |   | < 0.00274    |   | < 0.00712     |   | -          | 0.0345           | B J              | < 4.38 |   | 0.438                            | J | 0.473                   |                                   |   |
| BH-3      | 7/16/2020   | 0-1                   | 190                     | 0.0 | 15.1                  | J | < 0.00108         |   | < 0.00542 |   | < 0.00271    |   | 0.00258       | J | 0.00258    | 0.0312           | B J              | 2.49   | J | 7.31                             |   | 9.83                    |                                   |   |
|           |             | 2-3                   | 380                     | 0.0 | 684                   |   | < 0.00105         |   | < 0.00526 |   | < 0.00263    |   | < 0.00683     |   | -          | 0.0472           | B J              | < 4.20 |   | 2.84                             | J | 2.89                    |                                   |   |
|           |             | 4-5                   | 110                     | 0.0 | 72.7                  |   | < 0.00103         |   | < 0.00514 |   | < 0.00257    |   | 0.00117       | J | 0.00117    | 0.0394           | B J              | < 4.11 |   | 1.52                             | J | 1.56                    |                                   |   |
|           |             | 6-7                   | 88                      | 0.0 | 103                   |   | < 0.00100         |   | < 0.00502 |   | < 0.00251    |   | 0.00130       | J | 0.00130    | 0.0418           | B J              | 2.01   | J | 4.29                             |   | 6.34                    |                                   |   |
|           |             | 9-10                  | 73                      | 0.0 | 80.9                  |   | < 0.00107         |   | < 0.00534 |   | < 0.00267    |   | 0.00124       | J | 0.00124    | 0.0409           | B J              | < 4.27 |   | 2.15                             | J | 2.19                    |                                   |   |
| BH-4      | 7/16/2020   | 0-1                   | 50                      | 0.0 | < 20.4                |   | < 0.00102         |   | < 0.00511 |   | 0.000784     | J | < 0.00664     |   | 0.000784   | 0.0415           | B J              | 10.2   |   | 30.3                             |   | 40.5                    |                                   |   |
|           |             | 2-3                   | 40                      | 0.0 | 45.9                  |   | < 0.00101         |   | < 0.00507 |   | < 0.00253    |   | < 0.00659     |   | -          | 0.0392           | B J              | 3.22   | J | 4.42                             |   | 7.68                    |                                   |   |
|           |             | 4-5                   | 160                     | 0.0 | 177                   |   | < 0.00104         |   | < 0.00520 |   | < 0.00260    |   | < 0.00676     |   | -          | 0.0379           | B J              | < 4.16 |   | < 4.16                           |   | 0.0379                  |                                   |   |
|           |             | 6-7                   | 94                      | 0.0 | 115                   |   | < 0.00106         |   | < 0.00528 |   | < 0.00264    |   | < 0.00686     |   | -          | 0.0370           | B J              | < 4.22 |   | < 4.22                           |   | 0.0370                  |                                   |   |
|           |             | 9-10                  | 60                      | 0.0 | 74.4                  |   | < 0.00107         |   | < 0.00537 |   | < 0.00269    |   | < 0.00698     |   | -          | 0.0423           | B J              | < 4.30 |   | < 4.30                           |   | 0.0423                  |                                   |   |
| BH-5      | 7/16/2020   | 0-1                   | 190                     | 0.0 | 24.5                  |   | < 0.00107         |   | < 0.00537 |   | < 0.00269    |   | < 0.00699     |   | -          | 0.0349           | B J              | < 4.30 |   | 0.894                            | J | 0.929                   |                                   |   |
|           |             | 2-3                   | 56                      | 0.0 | 27.4                  |   | < 0.00102         |   | < 0.00509 |   | < 0.00255    |   | < 0.00662     |   | -          | 0.0373           | B J              | < 4.07 |   | < 4.07                           |   | 0.0373                  |                                   |   |
|           |             | 4-5                   | 60                      | 0.0 | 14.8                  | J | < 0.00103         |   | < 0.00517 |   | < 0.00258    |   | < 0.00672     |   | -          | 0.0635           | B J              | < 4.13 |   | < 4.13                           |   | 0.0635                  |                                   |   |
|           |             | 6-7                   | 60                      | 0.0 | < 20.5                |   | < 0.00103         |   | < 0.00513 |   | < 0.00256    |   | < 0.00667     |   | -          | 0.0352           | B J              | < 4.10 |   | < 4.10                           |   | 0.0352                  |                                   |   |
|           |             | 9-10                  | 34                      | 0.0 | < 20.9                |   | < 0.00105         |   | < 0.00523 |   | < 0.00262    |   | < 0.00680     |   | -          | 0.0350           | B J              | < 4.18 |   | < 4.18                           |   | 0.0350                  |                                   |   |
| BH-6      | 8/19/2020   | 0-1                   | -                       | -   | 10.6                  | J | < 0.00112         |   | < 0.00559 |   | < 0.00280    |   | < 0.00727     |   | -          | < 0.106          |                  | 7.47   |   | 17.8                             |   | 25.3                    |                                   |   |
|           |             | 2-3                   | -                       | -   | 96.3                  |   | < 0.00182         |   | < 0.00911 |   | < 0.00455    |   | < 0.0118      |   | -          | < 0.141          |                  | 10.1   |   | < 5.64                           |   | 10.1                    |                                   |   |
| BH-7      | 8/19/2020   | 0-1                   | -                       | -   | < 27.5                |   | < 0.00176         |   | < 0.00878 |   | < 0.00439    |   | < 0.0114      |   | -          | < 0.138          |                  | 3.40   | J | < 5.51                           |   | 3.40                    |                                   |   |
|           |             | 2-3                   | -                       | -   | < 28.6                |   | < 0.00186         |   | < 0.00929 |   | < 0.00464    |   | < 0.0121      |   | -          | < 0.143          |                  | 2.63   | J | < 5.71                           |   | 2.63                    |                                   |   |

## NOTES:

ft. Feet  
bgs Below ground surface  
ppm Parts per million  
mg/kg Milligrams per kilogram  
TPH Total Petroleum Hydrocarbons  
GRO Gasoline range organics  
DRO Diesel range organics  
ORO Oil range organics

**Bold and italicized values indicate exceedance of proposed RRALs**

Shaded rows indicate depth intervals proposed for excavation and remediation.

- 1 EPA Method 300.0
- 2 EPA Method 8260B
- 3 EPA Method 8015
- 4 EPA Method 8015D/GRO

## QUALIFIERS:

B The same analyte is found in the associated blank.



## **APPENDIX A C-141 Forms**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

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

## Release Notification

### Responsible Party

|  |                                |
|--|--------------------------------|
| Responsible Party ConocoPhillips Company | OGRID 217817                   |
| Contact Name Gustavo Fejervary           | Contact Telephone 432/210-7037 |
| Contact email g.fejervary@cop.com        | Incident # (assigned by OCD)   |
| Contact mailing address                  | 5735 SW 7000 Andrews, TX 79714 |

### Location of Release Source

Latitude 32.81840 Longitude -103.49300  
(NAD 83 in decimal degrees to 5 decimal places)

|                                  |                          |
|----------------------------------|--------------------------|
| Site Name EVGSAU SAT 1           | Site Type flow line leak |
| Date Release Discovered 10/29/19 | API# (if applicable)     |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| j           | 19      | 17s      | 35e   | Lea    |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|  |  |   |
|--|--|---|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls) 0.6   | Volume Recovered (bbls) 0.3   |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 22.4  | Volume Recovered (bbls) 9.7   |
|  | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)  |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                             |

Cause of Release When checking satellite 1 area found flowline leak to 2437-001

Form C-141

State of New Mexico  
Oil Conservation Division

Page 2

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

|   |   |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>LESS THAN 25 BBLS |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                          |   |

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|  |   |
|--|---|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |   |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br><br>Remediation process is ongoing.  |   |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |   |
| 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: <u>Gustavo Fejervary</u>   | Title: <u>Environmental Coordinator</u> |
| Signature:    | Date: <u>11/4/19</u>                    |
| email: <u>g.fejervary@cop.com</u>  | Telephone: <u>432/210-7037</u>          |
| <b><u>OCD Only</u></b><br><br>Received by: _____ Date: _____   |   |

| L48 Spill Volume Estimate Form   |              |             |             |                               |                                      |  |   |  |  |
|--|--------------|-------------|-------------|-------------------------------|--------------------------------------|--|---|--|--|
| Facility Name & Number: EVGSAU2437-001   |              |             |             |                               |                                      |  |   |  |  |
| Asset Area: SENM (Buckeye)   |              |             |             |                               |                                      |  |   |  |  |
| Release Discovery Date & Time: 2:30 P.M. 10/29/19  |              |             |             |                               |                                      |  |   |  |  |
| Release Type: Oil Mixture  |              |             |             |                               |                                      |  |   |  |  |
| Provide any known details about the event: Flowline leak   |              |             |             |                               |                                      |  |   |  |  |
| Spill Calculation - Subsurface Spill - Rectangle   |              |             |             |                               |                                      |  |   |  |  |
| Was the release on pad or off-pad?   |              |             |             |                               |                                      |  |   |  |  |
| On Pad - 10.5%; Off Pad - 15.12% soil spilled-fluid saturation factor; if No, use factors above.   |              |             |             |                               |                                      |  |   |  |  |
| Yes, On Pad - 8%; Off Pad - 13.57% soil spilled-fluid saturation factor; if No, use factors above. |              |             |             |                               |                                      |  |   |  |  |
| Convert Irregular shape into a series of rectangles  | Length (ft.) | Width (ft.) | Depth (in.) | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| Rectangle A  | 24.0         | 1.0         | 2.00        | 15.12%                        | 0.712                                | 0.108                                  | 5.00%   | 0.005  | 0.102  |
| Rectangle B  | 18.0         | 3.0         | 3.00        | 15.12%                        | 2.403                                | 0.363                                  | 5.00%   | 0.018  | 0.345  |
| Rectangle C  | 45.0         | 24.0        | 4.00        | 15.12%                        | 64.080                               | 9.689                                  | 5.00%   | 0.484  | 9.204  |
| Rectangle D  | 21.0         | 12.0        | 4.00        | 15.12%                        | 14.952                               | 2.261                                  | 5.00%   | 0.113  | 2.148  |
| Rectangle E  | 12.0         | 9.0         | 3.00        | 15.12%                        | 4.806                                | 0.727                                  | 5.00%   | 0.036  | 0.690  |
| Rectangle F  |              |             |             |                               | 0.000                                | 0.000                                  |   | 0.000  | 0.000  |
| Rectangle G  |              |             |             |                               | 0.000                                | 0.000                                  |   | 0.000  | 0.000  |
| Rectangle H  |              |             |             |                               | 0.000                                | 0.000                                  |   | 0.000  | 0.000  |
| Rectangle I  |              |             |             |                               | 0.000                                | 0.000                                  |   | 0.000  | 0.000  |
| Rectangle J  |              |             |             |                               | 0.000                                | 0.000                                  |   | 0.000  | 0.000  |
| Total Volume Release:  |              |             |             |                               | 13.147                               | 0.657                                  |   |  | 12.490   |

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

## Site Assessment/Characterization

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

|   |  |
|---|--|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | _____ (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input 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

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|                |  |
|----------------|--|
| Incident ID    |  |
| 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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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



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

## Remediation Plan

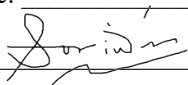
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ 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: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

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

Signature:  \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX B**

### **Site Characterization Data**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

---

No records found.

## UTMNAD83 Radius Search (in meters):

**Easting (X):** 641087.121

**Northing (Y):** 3632127

**Radius:** 800

---

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">L 05439</a>      | L            | LE    |        | 2    | 3    | 3   | 19  | 17S | 35E | 640212 | 3631888* | 907      | 135        | 85          | 50           |
| <a href="#">L 06940</a>      | L            | LE    |        | 1    | 4    | 3   | 20  | 17S | 35E | 642001 | 3631907* | 939      | 135        | 85          | 50           |
| <a href="#">L 05850</a>      | L            | LE    |        | 2    | 2    | 2   | 19  | 17S | 35E | 641377 | 3633109* | 1023     | 230        |             |              |
| <a href="#">L 02943</a>      | L            | LE    |        | 4    | 1    | 1   | 20  | 17S | 35E | 641780 | 3632913* | 1047     | 110        | 60          | 50           |
| <a href="#">L 04066</a>      | L            | LE    |        |      | 4    | 2   | 30  | 17S | 35E | 641309 | 3630994* | 1154     | 116        | 70          | 46           |
| <a href="#">L 04490</a>      | L            | LE    |        |      | 4    | 2   | 30  | 17S | 35E | 641309 | 3630994* | 1154     | 110        | 70          | 40           |
| <a href="#">L 04829 POD7</a> | L            | LE    |        | 3    | 3    | 3   | 19  | 17S | 35E | 640012 | 3631688* | 1161     | 210        | 70          | 140          |

Average Depth to Water: **73 feet**

Minimum Depth: **60 feet**

Maximum Depth: **85 feet**

Record Count: 7

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 641087.121

**Northing (Y):** 3632127

**Radius:** 1200

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/19/20 10:39 PM

Page 1 of 1

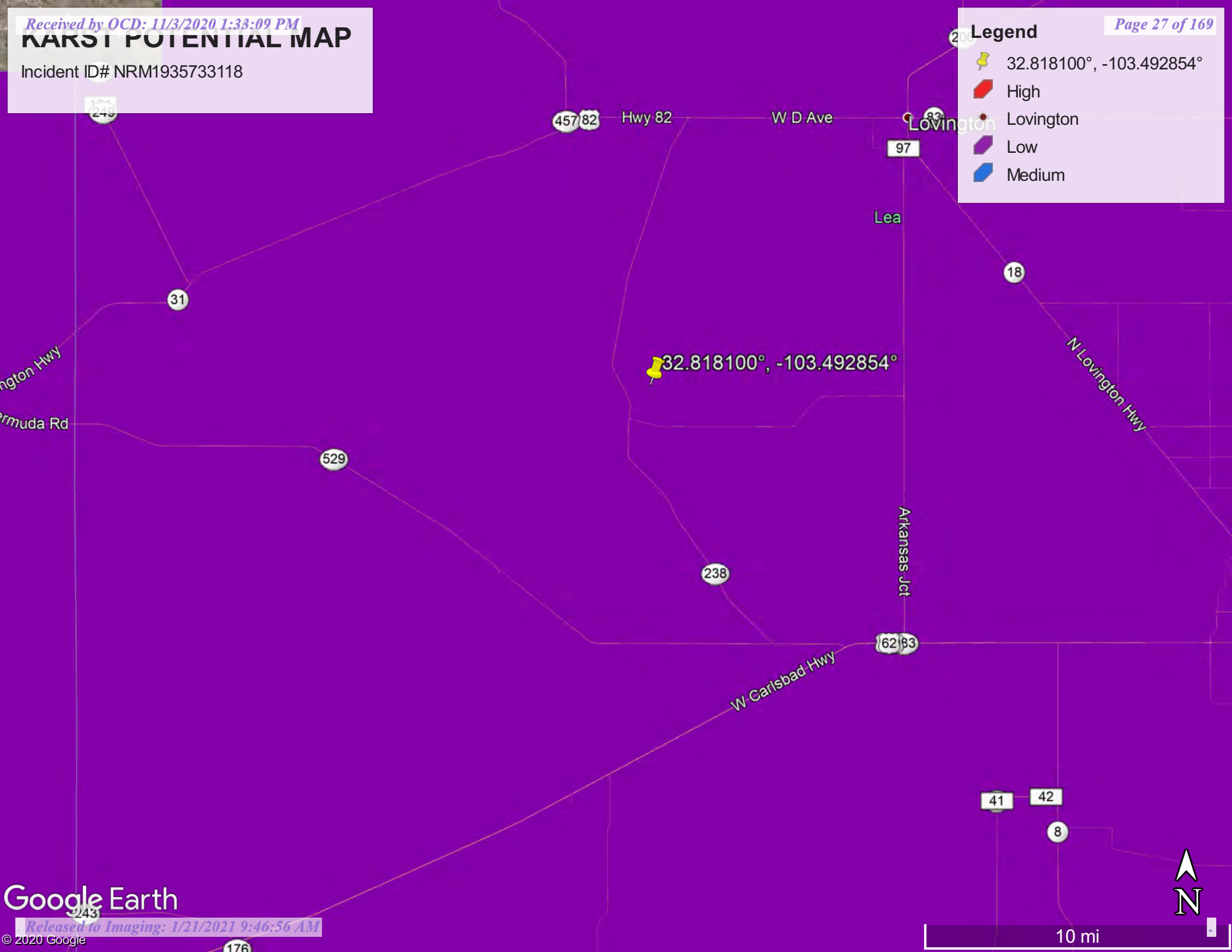
WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# KARST POTENTIAL MAP

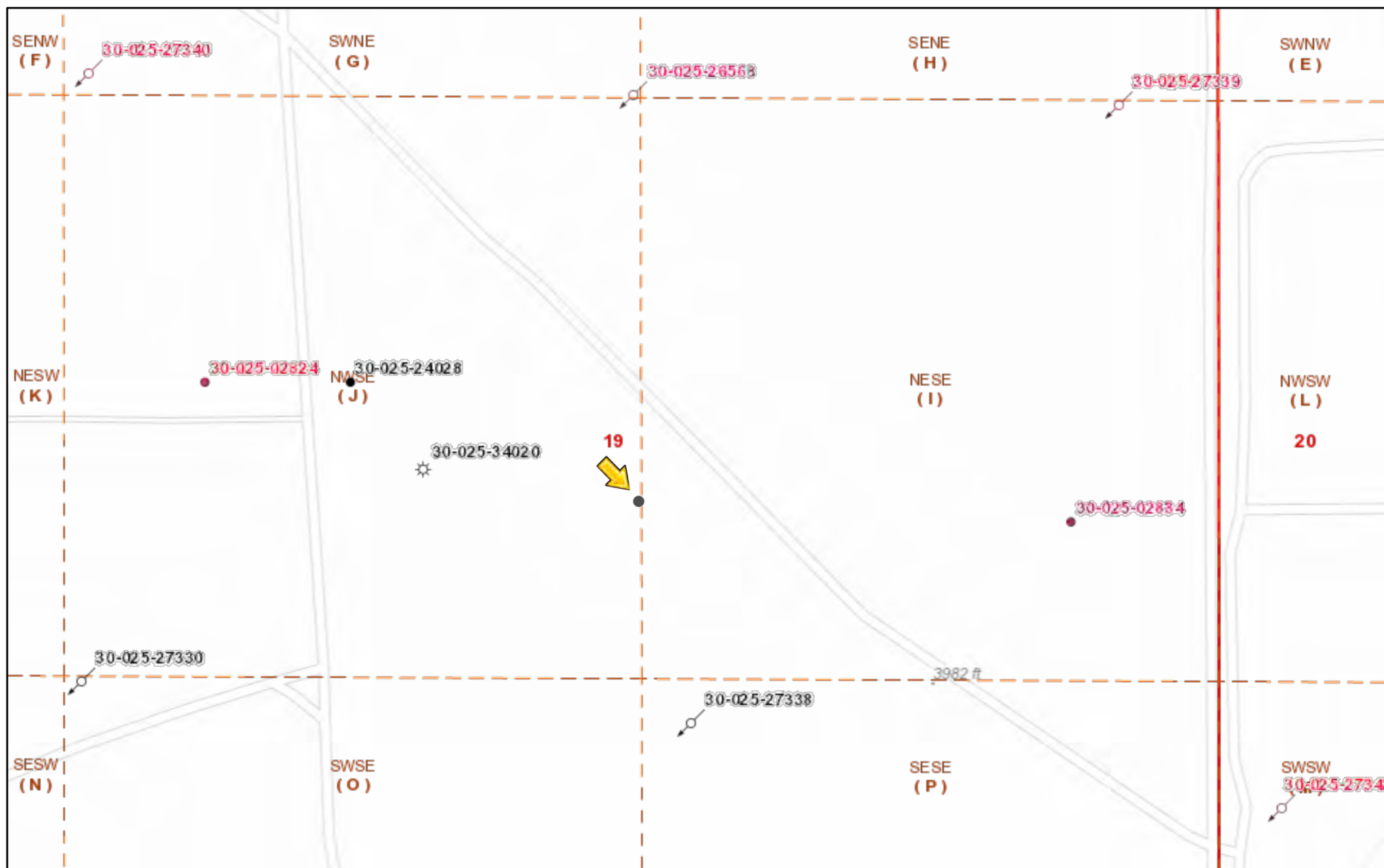
Incident ID# NRM1935733118

## Legend

-  32.818100°, -103.492854°
-  High
-  Lovington
-  Low
-  Medium

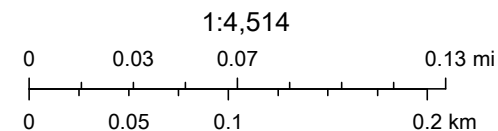


## Incident ID# NRM1935733118



10/19/2020, 11:44:27 PM

- Override 1 (Yellow Arrow)  
 Wells - Large Scale (Star)  
 ? undefined (Question Mark)
- Miscellaneous (Black Dot)  
 CO2, Active (Star)  
 CO2, Cancelled (Star with X)  
 CO2, New (Blue Star)  
 CO2, Plugged (Red Star)  
 CO2, Temporarily Abandoned (Orange Star)
- Gas, Active (Star)  
 Gas, Cancelled (Star with X)  
 Gas, New (Blue Star)  
 Gas, Plugged (Red Star)  
 Gas, Temporarily Abandoned (Orange Star)
- Injection, Active (Arrow with Circle)



Oil Conservation Division of the New Mexico Energy, Minerals and Natural

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division



## **APPENDIX C**

### **Laboratory Analytical Data**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 10, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: EVGSAU 2437-001

Enclosed are the results of analyses for samples received by the laboratory on 12/05/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

|                   |                 |                     |                |
|-------------------|-----------------|---------------------|----------------|
| Received:         | 12/05/2019      | Sampling Date:      | 12/04/2019     |
| Reported:         | 12/10/2019      | Sampling Type:      | Soil           |
| Project Name:     | EVGSAU 2437-001 | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN      | Sample Received By: | Tamara Oldaker |
| Project Location: | LEA COUNTY, NM  |                     |                |

**Sample ID: SP #1 - 2' (H904083-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |  |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2560   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 3.92 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 283    | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 57.9   | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #1 - 4' (H904083-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 0.245  | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 1.87   | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 3.84   | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTEX     | 5.96   | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 133 % 73.3-129

| Chloride, SM4500Cl-B |             |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | <b>4000</b> | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 3.92            |           |

| TPH 8015M        |             |                 | mg/kg      |              |     |            |               | Analyzed By: MS |           |
|------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte          | Result      | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| GRO C6-C10*      | <b>62.1</b> | 10.0            | 12/09/2019 | ND           | 202 | 101        | 200           | 8.83            |           |
| DRO >C10-C28*    | <b>726</b>  | 10.0            | 12/09/2019 | ND           | 217 | 109        | 200           | 1.54            |           |
| EXT DRO >C28-C36 | <b>132</b>  | 10.0            | 12/09/2019 | ND           |     |            |               |                 |           |

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #2 - 2' (H904083-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/09/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 0.205  | 0.050           | 12/09/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 1.28   | 0.050           | 12/09/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 3.55   | 0.150           | 12/09/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | 5.03   | 0.300           | 12/09/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | 2760   | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 3.92            |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-06 |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 256    | 50.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 12500  | 50.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 2590   | 50.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 139 % 41-142

Surrogate: 1-Chlorooctadecane 391 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #2 - 4' (H904083-04)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 1.51   | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 4.20   | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 7.62   | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTEX     | 13.3   | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 164 % 73.3-129

| Chloride, SM4500CI-B |        |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | 3440   | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 3.92            |           |

| TPH 8015M        |        |                 | mg/kg      |              |     |            |               | Analyzed By: MS |           |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| GRO C6-C10*      | 126    | 10.0            | 12/09/2019 | ND           | 202 | 101        | 200           | 8.83            |           |
| DRO >C10-C28*    | 1550   | 10.0            | 12/09/2019 | ND           | 217 | 109        | 200           | 1.54            |           |
| EXT DRO >C28-C36 | 303    | 10.0            | 12/09/2019 | ND           |     |            |               |                 |           |

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #3 - 2' (H904083-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.500 | 0.500           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 0.721  | 0.500           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 3.48   | 0.500           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 9.02   | 1.50            | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | 13.2   | 3.00            | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 154 % 73.3-129

| Chloride, SM4500CI-B |             |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|-------------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | <b>2960</b> | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 0.00            | QM-07     |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-06 |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 341    | 50.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 18100  | 50.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 3480   | 50.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 512 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #3 - 4' (H904083-06)**

| BTX 8021B      |              | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.500       | 0.500           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <b>0.887</b> | 0.500           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <b>5.60</b>  | 0.500           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <b>11.7</b>  | 1.50            | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <b>18.2</b>  | 3.00            | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 159 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>1860</b> | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |             | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <b>296</b>  | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <b>4970</b> | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <b>916</b>  | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 197 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #4 - 3' (H904083-07)**

| BTX 8021B      |              | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050       | 0.050           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <b>0.124</b> | 0.050           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <b>0.953</b> | 0.050           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <b>2.94</b>  | 0.150           | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <b>4.02</b>  | 0.300           | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 185 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>2840</b> | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |             | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <b>207</b>  | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <b>7450</b> | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <b>1520</b> | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 258 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #4 - 5' (H904083-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.3-129

| Chloride, SM4500CI-B |        |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | 4400   | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 0.00            |           |

| TPH 8015M        |        |                 | mg/kg      |              |     |            |               | Analyzed By: MS |           |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND           | 202 | 101        | 200           | 8.83            |           |
| DRO >C10-C28*    | 512    | 10.0            | 12/09/2019 | ND           | 217 | 109        | 200           | 1.54            |           |
| EXT DRO >C28-C36 | 192    | 10.0            | 12/09/2019 | ND           |     |            |               |                 |           |

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #5 - 3' (H904083-09)**

| BTX 8021B             |              | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|-----------------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Benzene*</b>       | <b>0.115</b> | 0.050           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| <b>Toluene*</b>       | <b>4.71</b>  | 0.050           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| <b>Ethylbenzene*</b>  | <b>9.83</b>  | 0.050           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| <b>Total Xylenes*</b> | <b>23.1</b>  | 0.150           | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| <b>Total BTX</b>      | <b>37.8</b>  | 0.300           | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 283 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>3400</b> | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |             | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|----------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>GRO C6-C10*</b>         | <b>640</b>  | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>8810</b> | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>1560</b> | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 158 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP #5 - 5' (H904083-10)**

| BTX 8021B      |        | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 0.399  | 0.050           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 0.966  | 0.050           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 1.53   | 0.150           | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | 2.90   | 0.300           | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 293 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1260   | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 144    | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 6180   | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 1020   | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.5 % 41-142

Surrogate: 1-Chlorooctadecane 244 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 1 (H904083-11)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 146 % 73.3-129

| Chloride, SM4500CI-B |        |                 | mg/kg      |              |     |            |               | Analyzed By: AC |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | 1360   | 16.0            | 12/06/2019 | ND           | 416 | 104        | 400           | 0.00            |           |

| TPH 8015M        |        |                 | mg/kg      |              |     |            |               | Analyzed By: MS |           |
|------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND           | 202 | 101        | 200           | 8.83            |           |
| DRO >C10-C28*    | 84.9   | 10.0            | 12/09/2019 | ND           | 217 | 109        | 200           | 1.54            |           |
| EXT DRO >C28-C36 | 60.0   | 10.0            | 12/09/2019 | ND           |     |            |               |                 |           |

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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**Analytical Results For:**

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 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 2 (H904083-12)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 0.058  | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 0.155  | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 8000   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 10.3   | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 109    | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 22.2   | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 3 (H904083-13)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |  |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 4 (H904083-14)**

| BTX 8021B      |              | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050       | 0.050           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050       | 0.050           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <b>0.573</b> | 0.050           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <b>4.15</b>  | 0.150           | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <b>4.72</b>  | 0.300           | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 169 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>1500</b> | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |             | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result      | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <b>280</b>  | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <b>7040</b> | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <b>1210</b> | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 243 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 5 (H904083-15)**

| BTX 8021B      |        | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <1.00  | 1.00            | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 19.3   | 1.00            | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 64.3   | 1.00            | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 124    | 3.00            | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | 207    | 6.00            | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 187 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           | Analyzed By: MS |              |     |            |               | S-06 |           |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 3900   | 50.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 36500  | 50.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 5710   | 50.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 561 % 41-142

Surrogate: 1-Chlorooctadecane 864 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WALL # 6 (H904083-16)**

| BTX 8021B      |        | mg/kg           | Analyzed By: MS |              |      |            |               | S-04 |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.500 | 0.500           | 12/06/2019      | ND           | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | 4.94   | 0.500           | 12/06/2019      | ND           | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | 21.0   | 0.500           | 12/06/2019      | ND           | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | 41.0   | 1.50            | 12/06/2019      | ND           | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | 66.9   | 3.00            | 12/06/2019      | ND           |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 141 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1060   | 16.0            | 12/06/2019      | ND           | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           | Analyzed By: MS |              |     |            |               | S-04 |           |
|------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | 1080   | 10.0            | 12/09/2019      | ND           | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | 9100   | 10.0            | 12/09/2019      | ND           | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | 1290   | 10.0            | 12/09/2019      | ND           |     |            |               |      |           |

Surrogate: 1-Chlorooctane 196 % 41-142

Surrogate: 1-Chlorooctadecane 291 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 1 - SURFACE (H904083-17)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/10/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050 | 0.050           | 12/10/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/10/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/10/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <0.300 | 0.300           | 12/10/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 1 - 2' (H904083-18)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 2 - SURFACE (H904083-19)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/09/2019 | ND              | 202 | 101        | 200           | 8.83 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/09/2019 | ND              | 217 | 109        | 200           | 1.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/09/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 2 - 2' (H904083-20)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.78 | 88.9       | 2.00          | 2.86 |           |
| Toluene*       | <0.050 | 0.050           | 12/06/2019 | ND              | 1.73 | 86.7       | 2.00          | 2.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/06/2019 | ND              | 1.76 | 87.9       | 2.00          | 2.18 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/06/2019 | ND              | 5.32 | 88.6       | 6.00          | 2.03 |           |
| Total BTX      | <0.300 | 0.300           | 12/06/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/07/2019 | ND              | 226 | 113        | 200           | 3.20  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/07/2019 | ND              | 238 | 119        | 200           | 0.955 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/07/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 3 - SURFACE (H904083-21)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.77 | 88.5       | 2.00          | 6.41 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.71 | 85.3       | 2.00          | 6.34 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/07/2019 | ND              | 1.72 | 86.1       | 2.00          | 6.58 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/07/2019 | ND              | 5.21 | 86.8       | 6.00          | 6.49 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/07/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/07/2019 | ND              | 226 | 113        | 200           | 3.20  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/07/2019 | ND              | 238 | 119        | 200           | 0.955 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/07/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 3 - 2' (H904083-22)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.77 | 88.5       | 2.00          | 6.41 |           |
| Toluene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.71 | 85.3       | 2.00          | 6.34 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/07/2019 | ND              | 1.72 | 86.1       | 2.00          | 6.58 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/07/2019 | ND              | 5.21 | 86.8       | 6.00          | 6.49 |           |
| Total BTEX     | <0.300 | 0.300           | 12/07/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/07/2019 | ND              | 226 | 113        | 200           | 3.20  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/07/2019 | ND              | 238 | 119        | 200           | 0.955 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/07/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 4 - SURFACE (H904083-23)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.77 | 88.5       | 2.00          | 6.41 |           |
| Toluene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.71 | 85.3       | 2.00          | 6.34 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/07/2019 | ND              | 1.72 | 86.1       | 2.00          | 6.58 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/07/2019 | ND              | 5.21 | 86.8       | 6.00          | 6.49 |           |
| Total BTEx     | <0.300 | 0.300           | 12/07/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/07/2019 | ND              | 226 | 113        | 200           | 3.20  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/07/2019 | ND              | 238 | 119        | 200           | 0.955 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/07/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 12/05/2019  
 Reported: 12/10/2019  
 Project Name: EVGSAU 2437-001  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 12/04/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG # 4 - 2' (H904083-24)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.77 | 88.5       | 2.00          | 6.41 |           |
| Toluene*       | <0.050 | 0.050           | 12/07/2019 | ND              | 1.71 | 85.3       | 2.00          | 6.34 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/07/2019 | ND              | 1.72 | 86.1       | 2.00          | 6.58 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/07/2019 | ND              | 5.21 | 86.8       | 6.00          | 6.49 |           |
| Total BTEX     | <0.300 | 0.300           | 12/07/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 12/06/2019 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/07/2019 | ND              | 226 | 113        | 200           | 3.20  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/07/2019 | ND              | 238 | 119        | 200           | 0.955 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/07/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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### Notes and Definitions

|       |  |
|-------|--|
| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| S-04  | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.   |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                               |
| ND    | Analyte NOT DETECTED at or above the reporting limit   |
| RPD   | Relative Percent Difference  |
| **    | Samples not received at proper temperature of 6°C or below.  |
| ***   | Insufficient time to reach temperature.  |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written in a cursive style.

Celey D. Keene, Lab Director/Quality Manager

Page 27 of 29



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|---|--|------------------|--|--|--|--|--|--|--|
| Company Name: ConocoPhillips   |  |  |  |  |  | P.O. #:   |  | BILL TO          |  |  |  |  |  |  |  |
| Project Manager: Justin Wright   |  |  |  |  |  | Company: COPC   |  | ANALYSIS REQUEST |  |  |  |  |  |  |  |
| Address:   |  |  |  |  |  | Attn:   |  |                  |  |  |  |  |  |  |  |
| City: Hobbs  |  |  |  |  |  | Address:  |  |                  |  |  |  |  |  |  |  |
| Phone #: 575-631-9092  |  |  |  |  |  | City:   |  |                  |  |  |  |  |  |  |  |
| Project #:   |  |  |  |  |  | State:  |  |                  |  |  |  |  |  |  |  |
| Project Location: EYCSAU 2437-001  |  |  |  |  |  | Zip:  |  |                  |  |  |  |  |  |  |  |
| Sample Name: Lea County, NM  |  |  |  |  |  | Phone #:  |  |                  |  |  |  |  |  |  |  |
| For Lab Use Only   |  |  |  |  |  | Fax #:  |  |                  |  |  |  |  |  |  |  |
| Lab I.D.   |  |  |  |  |  | (G)RAB OR (C)OMP.   |  |                  |  |  |  |  |  |  |  |
| Sample I.D.  |  |  |  |  |  | # CONTAINERS  |  |                  |  |  |  |  |  |  |  |
| H904083  |  |  |  |  |  | GROUNDWATER   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | WASTEWATER  |  |                  |  |  |  |  |  |  |  |
| 1 SP#1-2'  |  |  |  |  |  | SOIL  |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | OIL   |  |                  |  |  |  |  |  |  |  |
| 2 SP#1-4'  |  |  |  |  |  | SLUDGE  |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | OTHER :   |  |                  |  |  |  |  |  |  |  |
| 3 SP#2-2'  |  |  |  |  |  | ACID/BASE:  |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | ICE / COOL  |  |                  |  |  |  |  |  |  |  |
| 4 SP#2-4'  |  |  |  |  |  | DATE  |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | TIME  |  |                  |  |  |  |  |  |  |  |
| 5 SP#3-2'  |  |  |  |  |  | Chlorides   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | BTEX  |  |                  |  |  |  |  |  |  |  |
| 6 SP#3-4'  |  |  |  |  |  | TPH   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| 7 SP#4-3'  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| 8 SP#4-5'  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| 9 SP#5-3'  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| 10 SP#5-5'   |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| Relinquished By: [Signature]   |  |  |  |  |  | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |  | Add'l Phone #:   |  |  |  |  |  |  |  |
| Date: 12-5-19  |  |  |  |  |  | All Results are emailed. Please provide Email address:  |  |                  |  |  |  |  |  |  |  |
| Time: 2:30 PM  |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| Received By: [Signature]   |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| REMARKS:   |  |  |  |  |  |   |  |                  |  |  |  |  |  |  |  |
| Delivered By: (Circle One)   |  |  |  |  |  | Turnaround Time:  |  |                  |  |  |  |  |  |  |  |
| Corrected Temp. °C -4.5  |  |  |  |  |  | Standard Rush <input checked="" type="checkbox"/>   |  |                  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:   |  |  |  |  |  | Thermometer ID #97  |  |                  |  |  |  |  |  |  |  |
| FORM-006 R.3.0   |  |  |  |  |  | Correction Factor + 0.4 °C  |  |                  |  |  |  |  |  |  |  |
| Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No   |  |  |  |  |  | Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No |  |                  |  |  |  |  |  |  |  |
| CHECKED BY: (Initials)   |  |  |  |  |  | Observed Temp. °C   |  |                  |  |  |  |  |  |  |  |
| V.P.   |  |  |  |  |  | Corrected Temp. °C  |  |                  |  |  |  |  |  |  |  |





**CARDINAL**  
Laboratories

**101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



Page 29 of 29



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## ANALYTICAL REPORT

July 29, 2020

**ConocoPhillips - Tetra Tech**

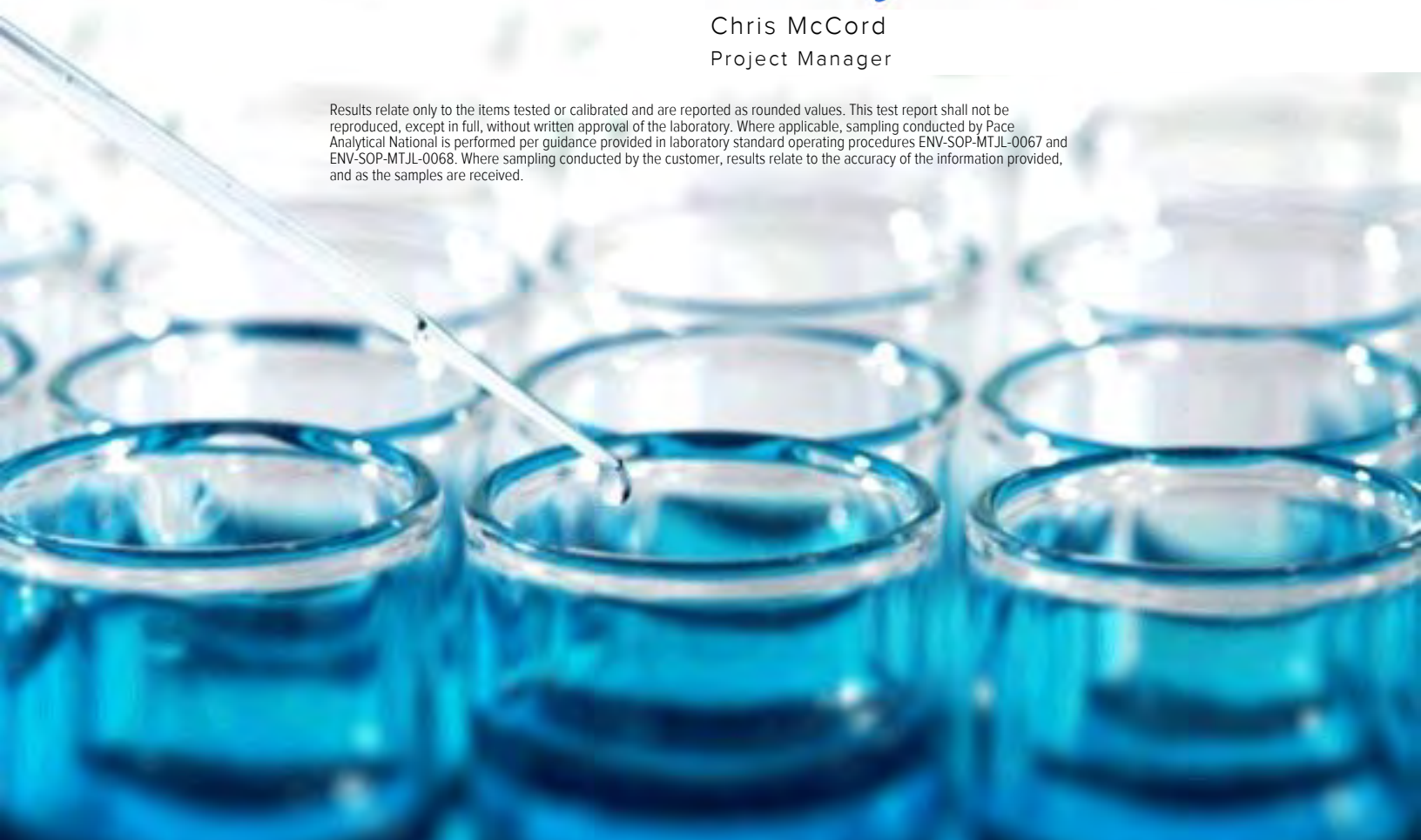
Sample Delivery Group: L1241287  
Samples Received: 07/18/2020  
Project Number: 212C-MD-02192  
Description: EVGSAU 2437-001  
Site: LEA COUNTY, NEW MEXICO  
Report To: Christian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

Entire Report Reviewed By:

Chris McCord  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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|                 |
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| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |

Al: Accreditations & Locations  
Sc: Sample Chain of Custody

54  
55

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## BH-1 (2-3') L1241287-01 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:00

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513991 | 1        | 07/23/20 21:13        | 07/23/20 21:31     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 14:12     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 02:22     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 10:05     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 5        | 07/23/20 23:17        | 07/25/20 03:11     | JN      | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-1 (4-5') L1241287-02 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:10

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513991 | 1        | 07/23/20 21:13        | 07/23/20 21:31     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 14:21     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 02:43     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 10:26     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/24/20 22:54     | JN      | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-1 (6-7') L1241287-03 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:20

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513991 | 1        | 07/23/20 21:13        | 07/23/20 21:31     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 14:30     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 03:03     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 10:46     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/24/20 23:07     | JN      | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-1 (8-9') L1241287-04 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:30

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513991 | 1        | 07/23/20 21:13        | 07/23/20 21:31     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 14:40     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 03:24     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 11:06     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/24/20 23:20     | JN      | Mt. Juliet, TN |

## BH-1 (11-12') L1241287-05 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:40

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 14:59     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 03:44     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 11:27     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/24/20 23:33     | JN      | Mt. Juliet, TN |

## BH-1 (16-17') L1241287-06 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 08:50

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 10       | 07/22/20 10:30        | 07/22/20 15:18     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 04:05     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1515528 | 1        | 07/21/20 20:36        | 07/27/20 02:37     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 00:11     | JN      | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-1 (21-22') L1241287-07 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:00

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 16:06     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 04:25     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1515528 | 1        | 07/21/20 20:36        | 07/27/20 02:57     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 00:24     | JN      | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-2 (2-3') L1241287-08 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:10

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 16:15     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 04:46     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1515528 | 1        | 07/21/20 20:36        | 07/27/20 03:17     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 5        | 07/23/20 23:17        | 07/25/20 03:23     | JN      | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-2 (4-5') L1241287-09 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:20

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 16:25     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1513384 | 1        | 07/21/20 20:36        | 07/23/20 05:07     | TPR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 12:48     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 00:36     | JN      | Mt. Juliet, TN |

## BH-2 (6-7') L1241287-10 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:30

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 16:38     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/23/20 23:04     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 13:09     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 00:49     | JN      | Mt. Juliet, TN |

## BH-2 (8-9') L1241287-11 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:40

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 16:47     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/23/20 23:28     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 13:29     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 01:02     | JN      | Mt. Juliet, TN |

## BH-2 (11-12') L1241287-12 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 09:50

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 16:57     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/23/20 23:52     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 13:49     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 01:15     | JN      | Mt. Juliet, TN |

## BH-2 (16-17') L1241287-13 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:00

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 17:06     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 00:16     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 14:09     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 01:28     | JN      | Mt. Juliet, TN |

## BH-3 (0-1') L1241287-14 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:10

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513992 | 1        | 07/23/20 20:57        | 07/23/20 21:10     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 17:16     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 00:40     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 14:29     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 01:41     | JN      | Mt. Juliet, TN |

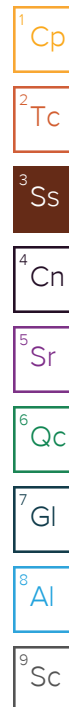
## BH-3 (2-3') L1241287-15 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:20

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 5        | 07/22/20 10:30        | 07/22/20 17:44     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 01:04     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 14:49     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 01:53     | JN      | Mt. Juliet, TN |



## BH-3 (4-5') L1241287-16 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:30

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 17:54     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 01:28     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 15:08     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 02:06     | JN      | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-3 (6-7') L1241287-17 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:40

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 18:03     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 01:51     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 15:29     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 02:19     | JN      | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-3 (9-10') L1241287-18 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 10:50

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 18:13     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 02:15     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 15:49     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 02:32     | JN      | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-4 (0-1') L1241287-19 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 11:00

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 18:32     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 02:39     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 16:09     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 02:58     | JN      | Mt. Juliet, TN |

## BH-4 (2-3') L1241287-20 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 11:10

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28        | 07/23/20 20:53     | JAV     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512224 | 1        | 07/22/20 10:30        | 07/22/20 18:41     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 03:03     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513140 | 1        | 07/21/20 20:36        | 07/22/20 16:29     | JAH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514121 | 1        | 07/23/20 23:17        | 07/25/20 02:45     | JN      | Mt. Juliet, TN |

## BH-4 (4-5') L1241287-21 Solid

|   |           |          |                          | Collected by<br>Adrian | Collected date/time<br>07/16/20 11:20 | Received date/time<br>07/18/20 08:45 |
|---|-----------|----------|--------------------------|------------------------|---------------------------------------|--------------------------------------|
| Method  | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time  | Analyst                               | Location                             |
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28           | 07/23/20 20:53         | JAV                                   | Mt. Juliet, TN                       |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16           | 07/21/20 23:07         | ELN                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36           | 07/24/20 03:27         | DWR                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36           | 07/22/20 18:08         | DWR                                   | Mt. Juliet, TN                       |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38           | 07/24/20 16:47         | JN                                    | Mt. Juliet, TN                       |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-4 (6-7') L1241287-22 Solid

|   |           |          |                          | Collected by<br>Adrian | Collected date/time<br>07/16/20 11:30 | Received date/time<br>07/18/20 08:45 |
|---|-----------|----------|--------------------------|------------------------|---------------------------------------|--------------------------------------|
| Method  | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time  | Analyst                               | Location                             |
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28           | 07/23/20 20:53         | JAV                                   | Mt. Juliet, TN                       |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16           | 07/21/20 23:25         | ELN                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36           | 07/24/20 03:51         | DWR                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36           | 07/22/20 18:27         | DWR                                   | Mt. Juliet, TN                       |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38           | 07/24/20 16:59         | JN                                    | Mt. Juliet, TN                       |

5 Sr

6 Qc

7 Gl

8 Al

## BH-4 (9-10') L1241287-23 Solid

|   |           |          |                          | Collected by<br>Adrian | Collected date/time<br>07/16/20 11:40 | Received date/time<br>07/18/20 08:45 |
|---|-----------|----------|--------------------------|------------------------|---------------------------------------|--------------------------------------|
| Method  | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time  | Analyst                               | Location                             |
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28           | 07/23/20 20:53         | JAV                                   | Mt. Juliet, TN                       |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16           | 07/21/20 23:42         | ELN                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36           | 07/24/20 04:15         | DWR                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36           | 07/22/20 18:46         | DWR                                   | Mt. Juliet, TN                       |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38           | 07/24/20 17:12         | JN                                    | Mt. Juliet, TN                       |

9 Sc

## BH-5 (0-1') L1241287-24 Solid

|   |           |          |                          | Collected by<br>Adrian | Collected date/time<br>07/16/20 12:00 | Received date/time<br>07/18/20 08:45 |
|---|-----------|----------|--------------------------|------------------------|---------------------------------------|--------------------------------------|
| Method  | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time  | Analyst                               | Location                             |
| Total Solids by Method 2540 G-2011                  | WG1513993 | 1        | 07/23/20 20:28           | 07/23/20 20:53         | JAV                                   | Mt. Juliet, TN                       |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16           | 07/22/20 00:00         | ELN                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36           | 07/24/20 04:39         | DWR                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36           | 07/22/20 19:05         | DWR                                   | Mt. Juliet, TN                       |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38           | 07/24/20 17:25         | JN                                    | Mt. Juliet, TN                       |

## BH-5 (2-3') L1241287-25 Solid

|   |           |          |                          | Collected by<br>Adrian | Collected date/time<br>07/16/20 12:10 | Received date/time<br>07/18/20 08:45 |
|---|-----------|----------|--------------------------|------------------------|---------------------------------------|--------------------------------------|
| Method  | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time  | Analyst                               | Location                             |
| Total Solids by Method 2540 G-2011                  | WG1513995 | 1        | 07/24/20 00:40           | 07/24/20 00:48         | KBC                                   | Mt. Juliet, TN                       |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16           | 07/22/20 00:52         | ELN                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36           | 07/24/20 05:03         | DWR                                   | Mt. Juliet, TN                       |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36           | 07/22/20 19:24         | DWR                                   | Mt. Juliet, TN                       |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38           | 07/24/20 17:38         | JN                                    | Mt. Juliet, TN                       |



## BH-5 (4-5') L1241287-26 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 12:20

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513995 | 1        | 07/24/20 00:40        | 07/24/20 00:48     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16        | 07/22/20 01:09     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1515530 | 1        | 07/21/20 20:36        | 07/27/20 14:23     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36        | 07/22/20 19:43     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38        | 07/24/20 17:51     | JN      | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-5 (6-7') L1241287-27 Solid

Collected by  
Adrian

Collected date/time  
07/16/20 12:30

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513995 | 1        | 07/24/20 00:40        | 07/24/20 00:48     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16        | 07/22/20 01:27     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 06:39     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36        | 07/22/20 20:02     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38        | 07/24/20 20:12     | JN      | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-5 (9-10') L1241287-28 Solid

Collected by  
Adrian

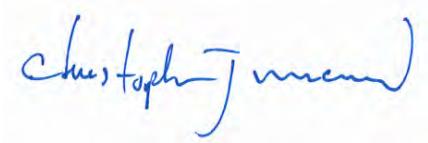
Collected date/time  
07/16/20 12:40

Received date/time  
07/18/20 08:45

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1513995 | 1        | 07/24/20 00:40        | 07/24/20 00:48     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1512219 | 1        | 07/21/20 11:16        | 07/22/20 01:44     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1514298 | 1        | 07/21/20 20:36        | 07/24/20 07:03     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1513217 | 1        | 07/21/20 20:36        | 07/22/20 20:21     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1514449 | 1        | 07/24/20 01:38        | 07/24/20 18:04     | JN      | Mt. Juliet, TN |

<sup>9</sup> Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord  
Project Manager

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Collected date/time: 07/16/20 08:00

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 96.3   |           | 1        | 07/23/2020 21:31 | <a href="#">WG1513991</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 736          |           | 47.8      | 104       | 5        | 07/22/2020 14:12 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | U            |           | 0.0225    | 0.104     | 1        | 07/23/2020 02:22 | <a href="#">WG1513384</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 104          |           |           | 77.0-120  |          | 07/23/2020 02:22 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000485  | 0.00104   | 1        | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00135   | 0.00519   | 1        | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000765  | 0.00260   | 1        | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00139      | J         | 0.000914  | 0.00675   | 1        | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.4         |           |           | 75.0-131  |          | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 07/22/2020 10:05 | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 07/22/2020 10:05 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 347          |           | 8.36      | 20.8      | 5        | 07/25/2020 03:11 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 381          |           | 1.42      | 20.8      | 5        | 07/25/2020 03:11 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 76.4         |           |           | 18.0-148  |          | 07/25/2020 03:11 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 08:10

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 92.3   |           | 1        | 07/23/2020 21:31     | <a href="#">WG1513991</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 1080         |           | 49.9      | 108       | 5        | 07/22/2020 14:21     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0235    | 0.108     | 1        | 07/23/2020 02:43     | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104          |           |           | 77.0-120  |          | 07/23/2020 02:43     | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000506  | 0.00108   | 1        | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00141   | 0.00542   | 1        | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000799  | 0.00271   | 1        | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00108      | J         | 0.000954  | 0.00704   | 1        | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.4         |           |           | 75.0-131  |          | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 07/22/2020 10:26     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 97.3         |           |           | 70.0-130  |          | 07/22/2020 10:26     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.51         | J         | 1.74      | 4.34      | 1        | 07/24/2020 22:54     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 2.03         | J         | 0.297     | 4.34      | 1        | 07/24/2020 22:54     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 72.2         |           |           | 18.0-148  |          | 07/24/2020 22:54     | <a href="#">WG1514121</a> |

Collected date/time: 07/16/20 08:20

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 96.0   |           | 1        | 07/23/2020 21:31 | <a href="#">WG1513991</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 754          |           | 47.9      | 104       | 5        | 07/22/2020 14:30 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0226    | 0.104     | 1        | 07/23/2020 03:03 | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105          |           |           | 77.0-120  |          | 07/23/2020 03:03 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000486  | 0.00104   | 1        | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00135   | 0.00521   | 1        | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000768  | 0.00260   | 1        | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00248      | J         | 0.000917  | 0.00677   | 1        | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 97.1         |           |           | 75.0-131  |          | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 07/22/2020 10:46 | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 07/22/2020 10:46 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |           | 1.68      | 4.17      | 1        | 07/24/2020 23:07 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.944        | J         | 0.285     | 4.17      | 1        | 07/24/2020 23:07 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 73.5         |           |           | 18.0-148  |          | 07/24/2020 23:07 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |



Collected date/time: 07/16/20 08:30

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 92.8   |           | 1        | 07/23/2020 21:31     | <a href="#">WG1513991</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 3410         |           | 49.5      | 108       | 5        | 07/22/2020 14:40     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0234    | 0.108     | 1        | 07/23/2020 03:24     | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105          |           |           | 77.0-120  |          | 07/23/2020 03:24     | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000503  | 0.00108   | 1        | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00140   | 0.00539   | 1        | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000794  | 0.00269   | 1        | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| Total Xylenes             | U            |           | 0.000948  | 0.00700   | 1        | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 97.2         |           |           | 75.0-131  |          | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 99.7         |           |           | 67.0-138  |          | 07/22/2020 11:06     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 98.2         |           |           | 70.0-130  |          | 07/22/2020 11:06     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.25         | J         | 1.73      | 4.31      | 1        | 07/24/2020 23:20     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.986        | J         | 0.295     | 4.31      | 1        | 07/24/2020 23:20     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 78.1         |           |           | 18.0-148  |          | 07/24/2020 23:20     | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 08:40

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.5   |           | 1        | 07/23/2020 21:10     | <a href="#">WG1513992</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 1210         |           | 47.2      | 103       | 5        | 07/22/2020 14:59     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0223    | 0.103     | 1        | 07/23/2020 03:44     | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 105          |           |           | 77.0-120  |          | 07/23/2020 03:44     | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000479  | 0.00103   | 1        | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00133   | 0.00513   | 1        | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000756  | 0.00256   | 1        | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| Total Xylenes             | U            |           | 0.000903  | 0.00667   | 1        | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.4         |           |           | 75.0-131  |          | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           | 67.0-138  |          | 07/22/2020 11:27     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 07/22/2020 11:27     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.70         | J         | 1.65      | 4.10      | 1        | 07/24/2020 23:33     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 1.84         | J         | 0.281     | 4.10      | 1        | 07/24/2020 23:33     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 75.1         |           |           | 18.0-148  |          | 07/24/2020 23:33     | <a href="#">WG1514121</a> |

Collected date/time: 07/16/20 08:50

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 89.0   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 5890         |           | 103       | 225       | 10       | 07/22/2020 15:18 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0244    | 0.112     | 1        | 07/23/2020 04:05 | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104          |           |           | 77.0-120  |          | 07/23/2020 04:05 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000583  | 0.00125   | 1        | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| Toluene                   | U            |           | 0.00162   | 0.00624   | 1        | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| Ethylbenzene              | U            |           | 0.000920  | 0.00312   | 1        | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| Total Xylenes             | U            |           | 0.00110   | 0.00811   | 1        | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| (S) Toluene-d8            | 97.2         |           |           | 75.0-131  |          | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| (S) 4-Bromofluorobenzene  | 98.8         |           |           | 67.0-138  |          | 07/27/2020 02:37 | <a href="#">WG1515528</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 07/27/2020 02:37 | <a href="#">WG1515528</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 2.29         | J         | 1.81      | 4.50      | 1        | 07/25/2020 00:11 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | U            |           | 0.308     | 4.50      | 1        | 07/25/2020 00:11 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 64.9         |           |           | 18.0-148  |          | 07/25/2020 00:11 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 09:00

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.0   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 543          |           | 9.69      | 21.1      | 1        | 07/22/2020 16:06 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0228    | 0.105     | 1        | 07/23/2020 04:25 | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 106          |           |           | 77.0-120  |          | 07/23/2020 04:25 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000492  | 0.00105   | 1        | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| Toluene                   | U            |           | 0.00137   | 0.00526   | 1        | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| Ethylbenzene              | U            |           | 0.000776  | 0.00263   | 1        | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| Total Xylenes             | U            |           | 0.000926  | 0.00684   | 1        | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| (S) Toluene-d8            | 98.6         |           |           | 75.0-131  |          | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| (S) 4-Bromofluorobenzene  | 99.7         |           |           | 67.0-138  |          | 07/27/2020 02:57 | <a href="#">WG1515528</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 07/27/2020 02:57 | <a href="#">WG1515528</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 3.61         | J         | 1.69      | 4.21      | 1        | 07/25/2020 00:24 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 1.67         | J         | 0.288     | 4.21      | 1        | 07/25/2020 00:24 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 71.0         |           |           | 18.0-148  |          | 07/25/2020 00:24 | <a href="#">WG1514121</a> |

|   |    |
|---|----|
| 1 | Cp |
| 2 | Tc |
| 3 | Ss |
| 4 | Cn |
| 5 | Sr |
| 6 | Qc |
| 7 | Gl |
| 8 | Al |
| 9 | Sc |

Collected date/time: 07/16/20 09:10

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 98.3   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 446          |           | 9.36      | 20.3      | 1        | 07/22/2020 16:15 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0221    | 0.102     | 1        | 07/23/2020 04:46 | <a href="#">WG1513384</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 104          |           |           | 77.0-120  |          | 07/23/2020 04:46 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000475  | 0.00102   | 1        | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| Toluene                   | U            |           | 0.00132   | 0.00509   | 1        | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| Ethylbenzene              | U            |           | 0.000750  | 0.00254   | 1        | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| Total Xylenes             | U            |           | 0.000895  | 0.00661   | 1        | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| (S) Toluene-d8            | 100          |           |           | 75.0-131  |          | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           | 67.0-138  |          | 07/27/2020 03:17 | <a href="#">WG1515528</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 07/27/2020 03:17 | <a href="#">WG1515528</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 286          |           | 8.19      | 20.3      | 5        | 07/25/2020 03:23 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 294          |           | 1.39      | 20.3      | 5        | 07/25/2020 03:23 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 90.3         |           |           | 18.0-148  |          | 07/25/2020 03:23 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |



Collected date/time: 07/16/20 09:20

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 92.1   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 674          |           | 9.99      | 21.7      | 1        | 07/22/2020 16:25 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | U            |           | 0.0236    | 0.109     | 1        | 07/23/2020 05:07 | <a href="#">WG1513384</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 107          |           |           | 77.0-120  |          | 07/23/2020 05:07 | <a href="#">WG1513384</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                          | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                  | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                          | U            |           | 0.000507  | 0.00109   | 1        | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| Toluene                          | U            |           | 0.00141   | 0.00543   | 1        | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| Ethylbenzene                     | U            |           | 0.000800  | 0.00272   | 1        | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| Total Xylenes                    | 0.00696      | J         | 0.000956  | 0.00706   | 1        | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| (S) <i>Toluene-d8</i>            | 98.8         |           |           | 75.0-131  |          | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 96.1         |           |           | 67.0-138  |          | 07/22/2020 12:48 | <a href="#">WG1513140</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 97.6         |           |           | 70.0-130  |          | 07/22/2020 12:48 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                         | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range    | U            |           | 1.75      | 4.34      | 1        | 07/25/2020 00:36 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range       | 0.449        | J         | 0.298     | 4.34      | 1        | 07/25/2020 00:36 | <a href="#">WG1514121</a> |
| (S) <i>o</i> -Terphenyl | 74.8         |           |           | 18.0-148  |          | 07/25/2020 00:36 | <a href="#">WG1514121</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/16/20 09:30

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.6   |           | 1        | 07/23/2020 21:10     | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 912          |           | 48.6      | 106       | 5        | 07/22/2020 16:38     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0372       | <a href="#">B J</a> | 0.0229    | 0.106     | 1        | 07/23/2020 23:04     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100          |                     |           | 77.0-120  |          | 07/23/2020 23:04     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000493  | 0.00106   | 1        | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00137   | 0.00528   | 1        | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000779  | 0.00264   | 1        | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| Total Xylenes             | U            |           | 0.000930  | 0.00687   | 1        | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.6         |           |           | 75.0-131  |          | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           | 67.0-138  |          | 07/22/2020 13:09     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 99.7         |           |           | 70.0-130  |          | 07/22/2020 13:09     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |                   | 1.70      | 4.23      | 1        | 07/25/2020 00:49     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.552        | <a href="#">J</a> | 0.289     | 4.23      | 1        | 07/25/2020 00:49     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 79.2         |                   |           | 18.0-148  |          | 07/25/2020 00:49     | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 09:40

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.7   |           | 1        | 07/23/2020 21:10     | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 846                |           | 47.6            | 103             | 5        | 07/22/2020 16:47     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0389             | <a href="#">B J</a> | 0.0224          | 0.103           | 1        | 07/23/2020 23:28     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.9               |                     |                 | 77.0-120        |          | 07/23/2020 23:28     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |                   | 0.000483        | 0.00103         | 1        | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| Toluene                   | U                  |                   | 0.00134         | 0.00517         | 1        | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| Ethylbenzene              | 0.000767           | <a href="#">J</a> | 0.000762        | 0.00259         | 1        | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00115            | <a href="#">J</a> | 0.000910        | 0.00672         | 1        | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.3               |                   |                 | 75.0-131        |          | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 98.6               |                   |                 | 67.0-138        |          | 07/22/2020 13:29     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 98.8               |                   |                 | 70.0-130        |          | 07/22/2020 13:29     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |                   | 1.66            | 4.14            | 1        | 07/25/2020 01:02     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.416              | <a href="#">J</a> | 0.283           | 4.14            | 1        | 07/25/2020 01:02     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 73.2               |                   |                 | 18.0-148        |          | 07/25/2020 01:02     | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 09:50

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 94.3   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 1210         |           | 48.8      | 106       | 5        | 07/22/2020 16:57 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | 0.0391       | <a href="#">B J</a> | 0.0230    | 0.106     | 1        | 07/23/2020 23:52 | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100          |                     |           | 77.0-120  |          | 07/23/2020 23:52 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |                   | 0.000495  | 0.00106   | 1        | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| Toluene                   | U            |                   | 0.00138   | 0.00530   | 1        | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |                   | 0.000782  | 0.00265   | 1        | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00332      | <a href="#">J</a> | 0.000933  | 0.00689   | 1        | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 99.4         |                   |           | 75.0-131  |          | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 98.9         |                   |           | 67.0-138  |          | 07/22/2020 13:49 | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 100          |                   |           | 70.0-130  |          | 07/22/2020 13:49 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |                   | 1.71      | 4.24      | 1        | 07/25/2020 01:15 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.791        | <a href="#">J</a> | 0.291     | 4.24      | 1        | 07/25/2020 01:15 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 75.6         |                   |           | 18.0-148  |          | 07/25/2020 01:15 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 10:00

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 91.3   |           | 1        | 07/23/2020 21:10     | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 160                |           | 10.1            | 21.9            | 1        | 07/22/2020 17:06     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

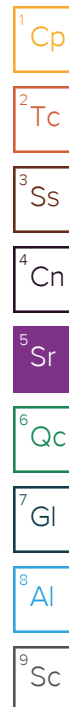
| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0345             | <a href="#">B J</a> | 0.0238          | 0.110           | 1        | 07/24/2020 00:16     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.0               |                     |                 | 77.0-120        |          | 07/24/2020 00:16     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000512        | 0.00110         | 1        | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| Toluene                   | U                  |           | 0.00142         | 0.00548         | 1        | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U                  |           | 0.000807        | 0.00274         | 1        | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| Total Xylenes             | U                  |           | 0.000964        | 0.00712         | 1        | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 98.1               |           |                 | 75.0-131        |          | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 97.1               |           |                 | 67.0-138        |          | 07/22/2020 14:09     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 98.1               |           |                 | 70.0-130        |          | 07/22/2020 14:09     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |                   | 1.76            | 4.38            | 1        | 07/25/2020 01:28     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 0.438              | <a href="#">J</a> | 0.300           | 4.38            | 1        | 07/25/2020 01:28     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 74.1               |                   |                 | 18.0-148        |          | 07/25/2020 01:28     | <a href="#">WG1514121</a> |





Collected date/time: 07/16/20 10:10

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 92.3   |           | 1        | 07/23/2020 21:10 | <a href="#">WG1513992</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 15.1         | J         | 9.97      | 21.7      | 1        | 07/22/2020 17:16 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

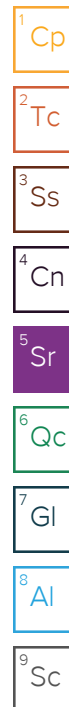
| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | 0.0312       | B J       | 0.0235    | 0.108     | 1        | 07/24/2020 00:40 | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.5         |           |           | 77.0-120  |          | 07/24/2020 00:40 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000506  | 0.00108   | 1        | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00141   | 0.00542   | 1        | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000798  | 0.00271   | 1        | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00258      | J         | 0.000953  | 0.00704   | 1        | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 101          |           |           | 67.0-138  |          | 07/22/2020 14:29 | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 07/22/2020 14:29 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 2.49         | J         | 1.74      | 4.33      | 1        | 07/25/2020 01:41 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 7.31         |           | 0.297     | 4.33      | 1        | 07/25/2020 01:41 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 65.9         |           |           | 18.0-148  |          | 07/25/2020 01:41 | <a href="#">WG1514121</a> |



Collected date/time: 07/16/20 10:20

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.1   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 684          |           | 48.4      | 105       | 5        | 07/22/2020 17:44 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | 0.0472       | <a href="#">B J</a> | 0.0228    | 0.105     | 1        | 07/24/2020 01:04 | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.9         |                     |           | 77.0-120  |          | 07/24/2020 01:04 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000491  | 0.00105   | 1        | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| Toluene                   | U            |           | 0.00137   | 0.00526   | 1        | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| Ethylbenzene              | U            |           | 0.000775  | 0.00263   | 1        | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| Total Xylenes             | U            |           | 0.000925  | 0.00683   | 1        | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 97.6         |           |           | 75.0-131  |          | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 94.6         |           |           | 67.0-138  |          | 07/22/2020 14:49 | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 96.3         |           |           | 70.0-130  |          | 07/22/2020 14:49 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |                   | 1.69      | 4.20      | 1        | 07/25/2020 01:53 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 2.84         | <a href="#">J</a> | 0.288     | 4.20      | 1        | 07/25/2020 01:53 | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 79.5         |                   |           | 18.0-148  |          | 07/25/2020 01:53 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 10:30

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.3   |           | 1        | 07/23/2020 20:53     | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 72.7               |           | 9.46            | 20.6            | 1        | 07/22/2020 17:54     | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0394             | <a href="#">B J</a> | 0.0223          | 0.103           | 1        | 07/24/2020 01:28     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.4               |                     |                 | 77.0-120        |          | 07/24/2020 01:28     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |                   | 0.000480        | 0.00103         | 1        | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| Toluene                   | U                  |                   | 0.00134         | 0.00514         | 1        | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| Ethylbenzene              | U                  |                   | 0.000758        | 0.00257         | 1        | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| Total Xylenes             | 0.00117            | <a href="#">J</a> | 0.000905        | 0.00668         | 1        | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| (S) Toluene-d8            | 95.8               |                   |                 | 75.0-131        |          | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| (S) 4-Bromofluorobenzene  | 98.4               |                   |                 | 67.0-138        |          | 07/22/2020 15:08     | <a href="#">WG1513140</a> |
| (S) 1,2-Dichloroethane-d4 | 101                |                   |                 | 70.0-130        |          | 07/22/2020 15:08     | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |                   | 1.65            | 4.11            | 1        | 07/25/2020 02:06     | <a href="#">WG1514121</a> |
| C28-C40 Oil Range    | 1.52               | <a href="#">J</a> | 0.282           | 4.11            | 1        | 07/25/2020 02:06     | <a href="#">WG1514121</a> |
| (S) o-Terphenyl      | 81.1               |                   |                 | 18.0-148        |          | 07/25/2020 02:06     | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 10:40

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 99.6   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 103          |           | 9.24      | 20.1      | 1        | 07/22/2020 18:03 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | 0.0418       | <a href="#">B J</a> | 0.0218    | 0.100     | 1        | 07/24/2020 01:51 | <a href="#">WG1514298</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 98.1         |                     |           | 77.0-120  |          | 07/24/2020 01:51 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                          | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                                  | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                          | U            |                   | 0.000469  | 0.00100   | 1        | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| Toluene                          | U            |                   | 0.00131   | 0.00502   | 1        | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| Ethylbenzene                     | U            |                   | 0.000740  | 0.00251   | 1        | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| Total Xylenes                    | 0.00130      | <a href="#">J</a> | 0.000884  | 0.00653   | 1        | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| (S) <i>Toluene-d8</i>            | 97.7         |                   |           | 75.0-131  |          | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 97.2         |                   |           | 67.0-138  |          | 07/22/2020 15:29 | <a href="#">WG1513140</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 97.0         |                   |           | 70.0-130  |          | 07/22/2020 15:29 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte                 | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                         | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range    | 2.01         | <a href="#">J</a> | 1.62      | 4.02      | 1        | 07/25/2020 02:19 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range       | 4.29         |                   | 0.275     | 4.02      | 1        | 07/25/2020 02:19 | <a href="#">WG1514121</a> |
| (S) <i>o</i> -Terphenyl | 87.4         |                   |           | 18.0-148  |          | 07/25/2020 02:19 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 10:50

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 93.7   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 80.9         |           | 9.82      | 21.3      | 1        | 07/22/2020 18:13 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | 0.0409       | <a href="#">B J</a> | 0.0232    | 0.107     | 1        | 07/24/2020 02:15 | <a href="#">WG1514298</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 100          |                     |           | 77.0-120  |          | 07/24/2020 02:15 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                          | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                                  | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                          | U            |                   | 0.000498  | 0.00107   | 1        | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| Toluene                          | U            |                   | 0.00139   | 0.00534   | 1        | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| Ethylbenzene                     | U            |                   | 0.000787  | 0.00267   | 1        | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| Total Xylenes                    | 0.00124      | <a href="#">J</a> | 0.000939  | 0.00694   | 1        | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| (S) <i>Toluene-d8</i>            | 101          |                   |           | 75.0-131  |          | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 97.4         |                   |           | 67.0-138  |          | 07/22/2020 15:49 | <a href="#">WG1513140</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 102          |                   |           | 70.0-130  |          | 07/22/2020 15:49 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte                 | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                         | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range    | U            |                   | 1.72      | 4.27      | 1        | 07/25/2020 02:32 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range       | 2.15         | <a href="#">J</a> | 0.292     | 4.27      | 1        | 07/25/2020 02:32 | <a href="#">WG1514121</a> |
| (S) <i>o</i> -Terphenyl | 79.4         |                   |           | 18.0-148  |          | 07/25/2020 02:32 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |



Collected date/time: 07/16/20 11:00

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 97.9   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | U            |           | 9.40      | 20.4      | 1        | 07/22/2020 18:32 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | 0.0415       | <a href="#">B J</a> | 0.0222    | 0.102     | 1        | 07/24/2020 02:39 | <a href="#">WG1514298</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.2         |                     |           | 77.0-120  |          | 07/24/2020 02:39 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                          | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                                  | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                          | U            |                   | 0.000477  | 0.00102   | 1        | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| Toluene                          | U            |                   | 0.00133   | 0.00511   | 1        | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| Ethylbenzene                     | 0.000784     | <a href="#">J</a> | 0.000753  | 0.00255   | 1        | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| Total Xylenes                    | U            |                   | 0.000899  | 0.00664   | 1        | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| (S) <i>Toluene-d8</i>            | 97.8         |                   |           | 75.0-131  |          | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 97.9         |                   |           | 67.0-138  |          | 07/22/2020 16:09 | <a href="#">WG1513140</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 96.8         |                   |           | 70.0-130  |          | 07/22/2020 16:09 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte                 | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                         | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range    | 10.2         |           | 1.65      | 4.09      | 1        | 07/25/2020 02:58 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range       | 30.3         |           | 0.280     | 4.09      | 1        | 07/25/2020 02:58 | <a href="#">WG1514121</a> |
| (S) <i>o</i> -Terphenyl | 51.7         |           |           | 18.0-148  |          | 07/25/2020 02:58 | <a href="#">WG1514121</a> |

Collected date/time: 07/16/20 11:10

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 98.7   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 45.9         |           | 9.32      | 20.3      | 1        | 07/22/2020 18:41 | <a href="#">WG1512224</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                                 | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|   | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction               | 0.0392       | <a href="#">B J</a> | 0.0220    | 0.101     | 1        | 07/24/2020 03:03 | <a href="#">WG1514298</a> |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 101          |                     |           | 77.0-120  |          | 07/24/2020 03:03 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                          | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                  | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                          | U            |           | 0.000473  | 0.00101   | 1        | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| Toluene                          | U            |           | 0.00132   | 0.00507   | 1        | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| Ethylbenzene                     | U            |           | 0.000747  | 0.00253   | 1        | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| Total Xylenes                    | U            |           | 0.000892  | 0.00659   | 1        | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| (S) <i>Toluene-d8</i>            | 98.6         |           |           | 75.0-131  |          | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| (S) <i>4-Bromofluorobenzene</i>  | 94.8         |           |           | 67.0-138  |          | 07/22/2020 16:29 | <a href="#">WG1513140</a> |
| (S) <i>1,2-Dichloroethane-d4</i> | 98.0         |           |           | 70.0-130  |          | 07/22/2020 16:29 | <a href="#">WG1513140</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte                 | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|-------------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                         | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range    | 3.22         | <a href="#">J</a> | 1.63      | 4.05      | 1        | 07/25/2020 02:45 | <a href="#">WG1514121</a> |
| C28-C40 Oil Range       | 4.42         |                   | 0.278     | 4.05      | 1        | 07/25/2020 02:45 | <a href="#">WG1514121</a> |
| (S) <i>o</i> -Terphenyl | 66.4         |                   |           | 18.0-148  |          | 07/25/2020 02:45 | <a href="#">WG1514121</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 11:20

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.2   |           | 1        | 07/23/2020 20:53     | <a href="#">WG1513993</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 177          |           | 9.57      | 20.8      | 1        | 07/21/2020 23:07     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0379       | <a href="#">B J</a> | 0.0226    | 0.104     | 1        | 07/24/2020 03:27     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.0         |                     |           | 77.0-120  |          | 07/24/2020 03:27     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000486  | 0.00104   | 1        | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| Toluene                   | U            |           | 0.00135   | 0.00520   | 1        | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U            |           | 0.000766  | 0.00260   | 1        | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| Total Xylenes             | U            |           | 0.000915  | 0.00676   | 1        | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 100          |           |           | 75.0-131  |          | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 97.1         |           |           | 67.0-138  |          | 07/22/2020 18:08     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 81.1         |           |           | 70.0-130  |          | 07/22/2020 18:08     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.67      | 4.16      | 1        | 07/24/2020 16:47     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U            |           | 0.285     | 4.16      | 1        | 07/24/2020 16:47     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 58.2         |           |           | 18.0-148  |          | 07/24/2020 16:47     | <a href="#">WG1514449</a> |

Collected date/time: 07/16/20 11:30

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.7   |           | 1        | 07/23/2020 20:53     | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 115                |           | 9.72            | 21.1            | 1        | 07/21/2020 23:25     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0370             | <a href="#">B J</a> | 0.0229          | 0.106           | 1        | 07/24/2020 03:51     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100                |                     |                 | 77.0-120        |          | 07/24/2020 03:51     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000493        | 0.00106         | 1        | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| Toluene                   | U                  |           | 0.00137         | 0.00528         | 1        | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U                  |           | 0.000778        | 0.00264         | 1        | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| Total Xylenes             | U                  |           | 0.000929        | 0.00686         | 1        | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 100                |           |                 | 75.0-131        |          | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 98.4               |           |                 | 67.0-138        |          | 07/22/2020 18:27     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 84.5               |           |                 | 70.0-130        |          | 07/22/2020 18:27     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.70            | 4.22            | 1        | 07/24/2020 16:59     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U                  |           | 0.289           | 4.22            | 1        | 07/24/2020 16:59     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 63.9               |           |                 | 18.0-148        |          | 07/24/2020 16:59     | <a href="#">WG1514449</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 11:40

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.1   |           | 1        | 07/23/2020 20:53     | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 74.4         |           | 9.88      | 21.5      | 1        | 07/21/2020 23:42     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0423       | <a href="#">B J</a> | 0.0233    | 0.107     | 1        | 07/24/2020 04:15     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100          |                     |           | 77.0-120  |          | 07/24/2020 04:15     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000502  | 0.00107   | 1        | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| Toluene                   | U            |           | 0.00140   | 0.00537   | 1        | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U            |           | 0.000792  | 0.00269   | 1        | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| Total Xylenes             | U            |           | 0.000945  | 0.00698   | 1        | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 99.0         |           |           | 75.0-131  |          | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 99.6         |           |           | 67.0-138  |          | 07/22/2020 18:46     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 87.8         |           |           | 70.0-130  |          | 07/22/2020 18:46     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.73      | 4.30      | 1        | 07/24/2020 17:12     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U            |           | 0.294     | 4.30      | 1        | 07/24/2020 17:12     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 72.3         |           |           | 18.0-148  |          | 07/24/2020 17:12     | <a href="#">WG1514449</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |



Collected date/time: 07/16/20 12:00

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 93.0   |           | 1        | 07/23/2020 20:53 | <a href="#">WG1513993</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 24.5         |           | 9.89      | 21.5      | 1        | 07/22/2020 00:00 | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |                     | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | 0.0349       | <a href="#">B J</a> | 0.0233    | 0.107     | 1        | 07/24/2020 04:39 | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.3         |                     |           | 77.0-120  |          | 07/24/2020 04:39 | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000502  | 0.00107   | 1        | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| Toluene                   | U            |           | 0.00140   | 0.00537   | 1        | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| Ethylbenzene              | U            |           | 0.000792  | 0.00269   | 1        | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| Total Xylenes             | U            |           | 0.000946  | 0.00699   | 1        | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 100          |           |           | 75.0-131  |          | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 98.2         |           |           | 67.0-138  |          | 07/22/2020 19:05 | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 85.9         |           |           | 70.0-130  |          | 07/22/2020 19:05 | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |                   | 1.73      | 4.30      | 1        | 07/24/2020 17:25 | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | 0.894        | <a href="#">J</a> | 0.295     | 4.30      | 1        | 07/24/2020 17:25 | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 76.4         |                   |           | 18.0-148  |          | 07/24/2020 17:25 | <a href="#">WG1514449</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 07/16/20 12:10

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 98.2   |           | 1        | 07/24/2020 00:48     | <a href="#">WG1513995</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 27.4         |           | 9.37      | 20.4      | 1        | 07/22/2020 00:52     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier           | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|---------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0373       | <a href="#">B J</a> | 0.0221    | 0.102     | 1        | 07/24/2020 05:03     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100          |                     |           | 77.0-120  |          | 07/24/2020 05:03     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000475  | 0.00102   | 1        | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| Toluene                   | U            |           | 0.00132   | 0.00509   | 1        | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U            |           | 0.000750  | 0.00255   | 1        | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| Total Xylenes             | U            |           | 0.000896  | 0.00662   | 1        | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 101          |           |           | 75.0-131  |          | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 98.3         |           |           | 67.0-138  |          | 07/22/2020 19:24     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 86.8         |           |           | 70.0-130  |          | 07/22/2020 19:24     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.64      | 4.07      | 1        | 07/24/2020 17:38     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U            |           | 0.279     | 4.07      | 1        | 07/24/2020 17:38     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 56.6         |           |           | 18.0-148  |          | 07/24/2020 17:38     | <a href="#">WG1514449</a> |

Collected date/time: 07/16/20 12:20

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.8   |           | 1        | 07/24/2020 00:48     | <a href="#">WG1513995</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 14.8               | J         | 9.51            | 20.7            | 1        | 07/22/2020 01:09     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0635             | B J       | 0.0224          | 0.103           | 1        | 07/27/2020 14:23     | <a href="#">WG1515530</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 100                |           |                 | 77.0-120        |          | 07/27/2020 14:23     | <a href="#">WG1515530</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000482        | 0.00103         | 1        | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| Toluene                   | U                  |           | 0.00134         | 0.00517         | 1        | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U                  |           | 0.000761        | 0.00258         | 1        | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| Total Xylenes             | U                  |           | 0.000909        | 0.00672         | 1        | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 99.4               |           |                 | 75.0-131        |          | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 98.6               |           |                 | 67.0-138        |          | 07/22/2020 19:43     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 84.3               |           |                 | 70.0-130        |          | 07/22/2020 19:43     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.66            | 4.13            | 1        | 07/24/2020 17:51     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U                  |           | 0.283           | 4.13            | 1        | 07/24/2020 17:51     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 58.5               |           |                 | 18.0-148        |          | 07/24/2020 17:51     | <a href="#">WG1514449</a> |

Collected date/time: 07/16/20 12:30

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.5   |           | 1        | 07/24/2020 00:48     | <a href="#">WG1513995</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | U                  |           | 9.44            | 20.5            | 1        | 07/22/2020 01:27     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

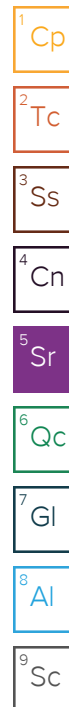
| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0352             | <a href="#">B J</a> | 0.0223          | 0.103           | 1        | 07/24/2020 06:39     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 101                |                     |                 | 77.0-120        |          | 07/24/2020 06:39     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000479        | 0.00103         | 1        | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| Toluene                   | U                  |           | 0.00133         | 0.00513         | 1        | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U                  |           | 0.000756        | 0.00256         | 1        | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| Total Xylenes             | U                  |           | 0.000903        | 0.00667         | 1        | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 99.3               |           |                 | 75.0-131        |          | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 96.1               |           |                 | 67.0-138        |          | 07/22/2020 20:02     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 89.1               |           |                 | 70.0-130        |          | 07/22/2020 20:02     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.65            | 4.10            | 1        | 07/24/2020 20:12     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U                  |           | 0.281           | 4.10            | 1        | 07/24/2020 20:12     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 75.5               |           |                 | 18.0-148        |          | 07/24/2020 20:12     | <a href="#">WG1514449</a> |



Collected date/time: 07/16/20 12:40

L1241287

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.6   |           | 1        | 07/24/2020 00:48     | <a href="#">WG1513995</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | U                  |           | 9.63            | 20.9            | 1        | 07/22/2020 01:44     | <a href="#">WG1512219</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0350             | <a href="#">B J</a> | 0.0227          | 0.105           | 1        | 07/24/2020 07:03     | <a href="#">WG1514298</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.6               |                     |                 | 77.0-120        |          | 07/24/2020 07:03     | <a href="#">WG1514298</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000489        | 0.00105         | 1        | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| Toluene                   | U                  |           | 0.00136         | 0.00523         | 1        | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| Ethylbenzene              | U                  |           | 0.000771        | 0.00262         | 1        | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| Total Xylenes             | U                  |           | 0.000921        | 0.00680         | 1        | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| (S) Toluene-d8            | 99.8               |           |                 | 75.0-131        |          | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| (S) 4-Bromofluorobenzene  | 99.2               |           |                 | 67.0-138        |          | 07/22/2020 20:21     | <a href="#">WG1513217</a> |
| (S) 1,2-Dichloroethane-d4 | 87.1               |           |                 | 70.0-130        |          | 07/22/2020 20:21     | <a href="#">WG1513217</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.68            | 4.18            | 1        | 07/24/2020 18:04     | <a href="#">WG1514449</a> |
| C28-C40 Oil Range    | U                  |           | 0.287           | 4.18            | 1        | 07/24/2020 18:04     | <a href="#">WG1514449</a> |
| (S) o-Terphenyl      | 65.3               |           |                 | 18.0-148        |          | 07/24/2020 18:04     | <a href="#">WG1514449</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Total Solids by Method 2540 G-2011 L1241287-01,02,03,04

Method Blank (MB)

(MB) R3552892-1 07/23/20 21:31

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.000     |              |        |        |

L1241287-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-01 07/23/20 21:31 • (DUP) R3552892-3 07/23/20 21:31

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 96.3            | 95.5       | 1        | 0.844   |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3552892-2 07/23/20 21:31

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Total Solids by Method 2540 G-2011

[L1241287-05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3552890-1 07/23/20 21:10

| Analyte      | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
|              | %         |              | %      | %      |
| Total Solids | 0.00100   |              |        |        |

L1241287-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-11 07/23/20 21:10 • (DUP) R3552890-3 07/23/20 21:10

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 96.7            | 96.7       | 1        | 0.0198  |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3552890-2 07/23/20 21:10

| Analyte      | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
|              | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Total Solids by Method 2540 G-2011 L1241287-15,16,17,18,19,20,21,22,23,24

Method Blank (MB)

(MB) R3552883-1 07/23/20 20:53

|              | MB Result | MB Qualifier | MB MDL | MB RDL |
|--------------|-----------|--------------|--------|--------|
| Analyte      | %         |              | %      | %      |
| Total Solids | 0.00100   |              |        |        |

L1241287-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-22 07/23/20 20:53 • (DUP) R3552883-3 07/23/20 20:53

|              | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte      | %               | %          |          | %       |               | %              |
| Total Solids | 94.7            | 96.2       | 1        | 1.62    |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3552883-2 07/23/20 20:53

|              | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------|--------------|------------|----------|-------------|---------------|
| Analyte      | %            | %          | %        | %           |               |
| Total Solids | 50.0         | 50.0       | 100      | 85.0-115    |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L1241287-25,26,27,28](#)

### Method Blank (MB)

(MB) R3552946-1 07/24/20 00:48

| Analyte      | MB Result<br>% | <u>MB Qualifier</u> | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.000          |                     |             |             |

### L1241293-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1241293-01 07/24/20 00:48 • (DUP) R3552946-3 07/24/20 00:48

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | <u>DUP Qualifier</u> | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|----------------------|-------------------|
| Total Solids | 57.1                 | 57.4            | 1        | 0.606        |                      | 10                |

### Laboratory Control Sample (LCS)

(LCS) R3552946-2 07/24/20 00:48

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------|-------------------|-----------------|---------------|------------------|----------------------|
| Total Solids | 50.0              | 50.0            | 100           | 85.0-115         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 300.0

L1241287-21,22,23,24,25,26,27,28

Method Blank (MB)

(MB) R3551821-1 07/21/20 17:36

|          | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte  | mg/kg     |              | mg/kg  | mg/kg  |
| Chloride | U         |              | 9.20   | 20.0   |

L1241025-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1241025-01 07/21/20 18:29 • (DUP) R3551821-3 07/21/20 18:46

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | 123                   | 125              | 1        | 1.83    |               | 20             |

L1241287-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-28 07/22/20 01:44 • (DUP) R3551821-6 07/22/20 02:02

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | U                     | U                | 1        | 0.000   |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3551821-2 07/21/20 17:53

|          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte  | mg/kg        | mg/kg      | %        | %           |               |
| Chloride | 200          | 204        | 102      | 90.0-110    |               |

L1241025-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1241025-02 07/21/20 19:04 • (MS) R3551821-4 07/21/20 19:21 • (MSD) R3551821-5 07/21/20 19:38

|          | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte  | mg/kg              | mg/kg                 | mg/kg           | mg/kg            | %       | %        |          | %           |              |               | %     | %          |
| Chloride | 627                | 37.6                  | 655             | 653              | 98.5    | 98.2     | 1        | 80.0-120    |              |               | 0.284 | 20         |

|   |    |
|---|----|
| 1 | Cp |
| 2 | Tc |
| 3 | Ss |
| 4 | Cn |
| 5 | Sr |
| 6 | Qc |
| 7 | Gl |
| 8 | Al |
| 9 | Sc |

Wet Chemistry by Method 300.0

[L1241287-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

## Method Blank (MB)

(MB) R3552301-1 07/22/20 13:08

|          | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte  | mg/kg     |              | mg/kg  | mg/kg  |
| Chloride | U         |              | 9.20   | 20.0   |

## L1241287-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-04 07/22/20 14:40 • (DUP) R3552301-3 07/22/20 14:49

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | 3410                  | 3480             | 5        | 2.25    |               | 20             |

## L1241287-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1241287-18 07/22/20 18:13 • (DUP) R3552301-6 07/22/20 18:22

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | 80.9                  | 85.7             | 1        | 5.85    |               | 20             |

## Laboratory Control Sample (LCS)

(LCS) R3552301-2 07/22/20 13:17

|          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte  | mg/kg        | mg/kg      | %        | %           |               |
| Chloride | 200          | 195        | 97.3     | 90.0-110    |               |

## L1241287-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1241287-06 07/22/20 15:08 • (MS) R3552301-4 07/22/20 15:47 • (MSD) R3552301-5 07/22/20 15:56

|          | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|----------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte  | mg/kg              | mg/kg                 | mg/kg           | mg/kg            | %       | %        |          | %           |              |               | %    | %          |
| Chloride | 562                | 5770                  | 5890            | 5960             | 21.4    | 35.2     | 1        | 80.0-120    | <u>E V</u>   | <u>E V</u>    | 1.31 | 20         |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

L1241287-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3552399-3 07/22/20 21:54

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 107                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3552399-1 07/22/20 20:52 • (LCSD) R3552399-2 07/22/20 21:13

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 6.06                | 6.16                 | 110           | 112            | 72.0-127         |               |                | 1.64     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 100           | 101            | 77.0-120         |               |                |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO

L1241287-10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,28

Method Blank (MB)

(MB) R3553317-2 07/23/20 22:16

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | 0.0461             | ⬇            | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 97.3               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3553317-1 07/23/20 21:29

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 5.36                | 97.5          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 116           | 77.0-120         |               |

L1241293-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1241293-01 07/24/20 07:27 • (MS) R3553317-3 07/24/20 07:51 • (MSD) R3553317-4 07/24/20 08:15

| Analyte                            | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 379                            | 2.30                              | 451                      | 441                          | 119          | 116           | 28.5     | 10.0-151         |              |               | 2.16     | 28              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                                |                                   |                          |                              | 118          | 116           |          | 77.0-120         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO L1241287-26

Method Blank (MB)

(MB) R3553649-2 07/27/20 13:00

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | 0.0553             | ⌵            | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 96.8               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3553649-1 07/27/20 12:12

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 5.00                | 90.9          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 111           | 77.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1241287-01,02,03,04,05,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3553312-2 07/22/20 06:40

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 99.1               |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 101                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 99.0               |              |                 | 70.0-130        |

Laboratory Control Sample (LCS)

(LCS) R3553312-1 07/22/20 05:39

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.139               | 111           | 70.0-123         |               |
| Ethylbenzene              | 0.125                 | 0.131               | 105           | 74.0-126         |               |
| Toluene                   | 0.125                 | 0.123               | 98.4          | 75.0-121         |               |
| Xylenes, Total            | 0.375                 | 0.372               | 99.2          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 97.0          | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 95.9          | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 105           | 70.0-130         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1241287-21,22,23,24,25,26,27,28

Method Blank (MB)

(MB) R3552570-3 07/22/20 16:51

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 101                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 97.5               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 76.4               |              |                 | 70.0-130        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3552570-1 07/22/20 15:35 • (LCSD) R3552570-2 07/22/20 15:54

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.115               | 0.117                | 92.0          | 93.6           | 70.0-123         |               |                | 1.72     | 20              |
| Ethylbenzene              | 0.125                 | 0.115               | 0.122                | 92.0          | 97.6           | 74.0-126         |               |                | 5.91     | 20              |
| Toluene                   | 0.125                 | 0.114               | 0.118                | 91.2          | 94.4           | 75.0-121         |               |                | 3.45     | 20              |
| Xylenes, Total            | 0.375                 | 0.349               | 0.360                | 93.1          | 96.0           | 72.0-127         |               |                | 3.10     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 99.5          | 97.9           | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 102           | 102            | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 87.8          | 87.6           | 70.0-130         |               |                |          |                 |

Volatile Organic Compounds (GC/MS) by Method 8260B

L1241287-06,07,08

Method Blank (MB)

(MB) R3553488-2 07/26/20 20:34

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 99.1               |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 101                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 101                |              |                 | 70.0-130        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3553488-1 07/26/20 19:13

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.111               | 88.8          | 70.0-123         |               |
| Ethylbenzene              | 0.125                 | 0.106               | 84.8          | 74.0-126         |               |
| Toluene                   | 0.125                 | 0.107               | 85.6          | 75.0-121         |               |
| Xylenes, Total            | 0.375                 | 0.313               | 83.5          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 96.9          | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 101           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 105           | 70.0-130         |               |

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1241287-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3553281-1 07/24/20 22:29

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 83.3               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3553281-2 07/24/20 22:41

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 40.6                | 81.2          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 87.8          | 18.0-148         |               |

L1241287-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1241287-05 07/24/20 23:33 • (MS) R3553281-3 07/24/20 23:46 • (MSD) R3553281-4 07/24/20 23:58

| Analyte              | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 51.0                           | 2.70                              | 43.8                     | 43.6                         | 80.6         | 79.7          | 1        | 50.0-150         |              |               | 0.469    | 20              |
| (S) o-Terphenyl      |                                |                                   |                          |                              | 81.9         | 76.4          |          | 18.0-148         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3552978-1 07/24/20 10:32

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 68.2               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3552978-2 07/24/20 10:45

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 31.6                | 63.2          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 68.3          | 18.0-148         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| (dry)                        | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].   |
| MDL                          | Method Detection Limit.  |
| MDL (dry)                    | Method Detection Limit.  |
| RDL                          | Reported Detection Limit.  |
| RDL (dry)                    | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

| Qualifier | Description   |
|-----------|---|
| B         | The same analyte is found in the associated blank.  |
| E         | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.   |
| V         | The sample concentration is too high to evaluate accurate spike recoveries.   |

|   |    |
|---|----|
| 1 | Cp |
| 2 | Tc |
| 3 | Ss |
| 4 | Cn |
| 5 | Sr |
| 6 | Qc |
| 7 | Gi |
| 8 | Al |
| 9 | Sc |

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1,6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1,4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

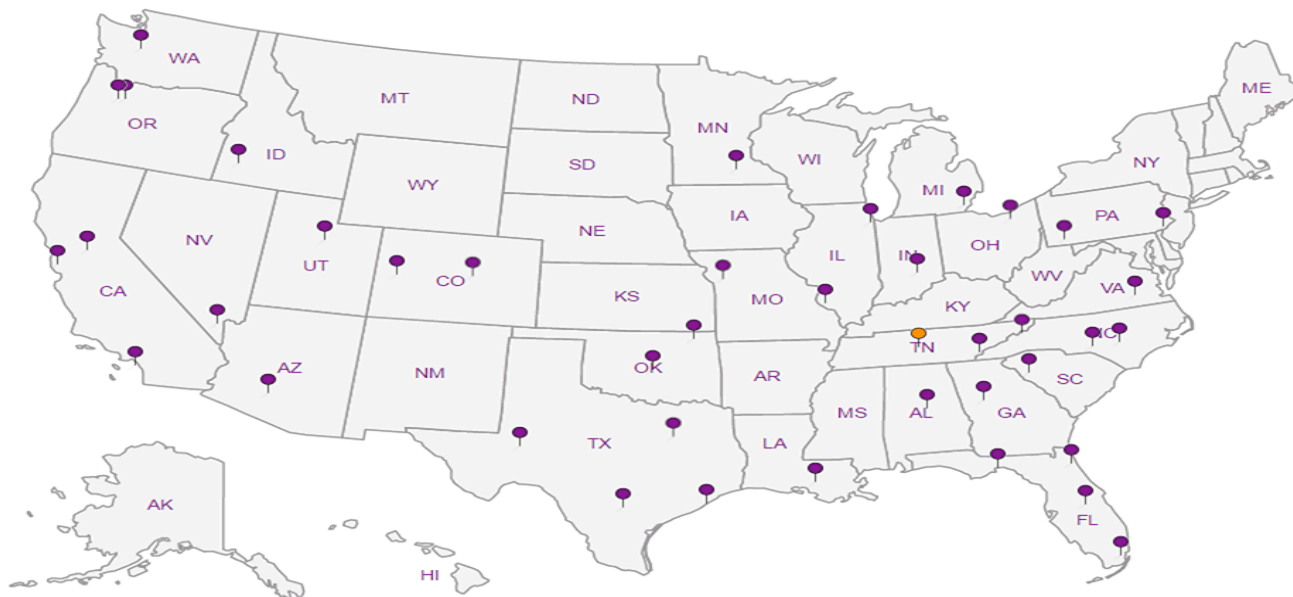
## Third Party Federal Accreditations

|                               |         |                     |               |
|-------------------------------|---------|---------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP, LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                 | 1461.01       |
| Canada                        | 1461.01 | USDA                | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                     |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



| <b style="font-size: 24px; margin-left: 10px;">Tetra Tech, Inc.</b>                         |                       |                           |       | 901 West Wall Street, Suite 100<br>Midland, Texas 79701<br>Tel (432) 682-4559<br>Fax (432) 682-3946 |                     |                           |                               | <div style="font-size: 24px; font-weight: bold; margin-right: 20px;">21241287</div> <div style="font-size: 24px; font-weight: bold;">F031</div>   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
|---|-----------------------|---------------------------|-------|---|---------------------|---------------------------|-------------------------------|---|------|--------------|----------------|---|---|--|--|--|--|--|--|------|-------|--------------|-------------------------|-------------|-------------------------|----------------|-------------------------------|-----|------------|--------------|-------------------------|-------------|-------------------------|----------------|---------------------|----------------|------------|-------------|------------------|-----------|-------|---|----------------------|----------------|----------|-------|----------|---------|-----|---|----------------------|-----------|------|
| <b>Client Name:</b> Conoco Phillips   |                       |                           |       | <b>Site Manager:</b> Christian Llull  |                     |                           |                               | <b>ANALYSIS REQUEST</b><br>(Circle or Specify Method No.) <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td>BTEX</td><td>8021B</td><td>BTEX</td><td>8260B</td><td>TPH</td><td>TX1005 (Ext to C35)</td><td>TPH</td><td>8015M (GRO - DRO - ORO - MRO)</td><td>PAH</td><td>8270C</td><td>Total Metals</td><td>Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Metals</td><td>Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Volatiles</td><td>TCLP Semi Volatiles</td><td>RCI</td><td>GC/MS Vol.</td><td>8260B / 624</td><td>GC/MS Semi. Vol.</td><td>8270C/625</td><td>PCB's</td><td>8082 / 608</td><td>NORM</td><td>PLM (Asbestos)</td><td>Chloride</td><td>300.0</td><td>Chloride</td><td>Sulfate</td><td>TDS</td><td>General Water Chemistry (see attached list)</td><td>Anion/Cation Balance</td><td>TPH 8015R</td><td>HOLD</td> </tr> </table> |      |              |                |   |   |  |  |  |  |  |  | BTEX | 8021B | BTEX         | 8260B                   | TPH         | TX1005 (Ext to C35)     | TPH            | 8015M (GRO - DRO - ORO - MRO) | PAH | 8270C      | Total Metals | Ag As Ba Cd Cr Pb Se Hg | TCLP Metals | Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI            | GC/MS Vol. | 8260B / 624 | GC/MS Semi. Vol. | 8270C/625 | PCB's | 8082 / 608                                  | NORM                 | PLM (Asbestos) | Chloride | 300.0 | Chloride | Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |
| BTEX  | 8021B                 | BTEX                      | 8260B | TPH   | TX1005 (Ext to C35) | TPH                       | 8015M (GRO - DRO - ORO - MRO) |   |      |              |                |   |   |  |  |  |  |  |  | PAH  | 8270C | Total Metals | Ag As Ba Cd Cr Pb Se Hg | TCLP Metals | Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles           | RCI | GC/MS Vol. | 8260B / 624  | GC/MS Semi. Vol.        | 8270C/625   | PCB's                   | 8082 / 608     | NORM                | PLM (Asbestos) | Chloride   | 300.0       | Chloride         | Sulfate   | TDS   | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R      | HOLD     |       |          |         |     |   |                      |           |      |
| <b>Project Name:</b> EVGSAU 2437-001  |                       |                           |       | <b>Contact Info:</b> Email: christian.llull@tetratech.com<br>Phone: (512) 338-1667                  |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| <b>Project Location:</b><br>(county, state) Lea County, New Mexico                          |                       |                           |       | <b>Project #:</b> 212C-MD-02192   |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| <b>Invoice to:</b> Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                       |                           |       |   |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| <b>Receiving Laboratory:</b> Pace Analytical  |                       |                           |       | <b>Sampler Signature:</b> Adrian  |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| <b>Comments:</b> COPTETRA Acctnum   |                       |                           |       |   |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| LAB #<br>(LAB USE ONLY)   | SAMPLE IDENTIFICATION | SAMPLING                  |       | MATRIX  |                     | PRESERVATIVE METHOD       |                               |   |      | # CONTAINERS | FILTERED (Y/N) |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
|   |                       | YEAR: 2020                |       | WATER   | SOIL                | HCL                       | HNO <sub>3</sub>              | ICE   | NONE |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
|   |                       | DATE                      | TIME  |   |                     |                           |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -01   | BH-1 (0-1')           | 7/16/2020                 | 800   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -02   | BH-1 (2-3')           | 7/16/2020                 | 810   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -03   | BH-1 (4-5')           | 7/16/2020                 | 820   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -04   | BH-1 (6-7')           | 7/16/2020                 | 830   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -05   | BH-1 (9-10')          | 7/16/2020                 | 840   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -06   | BH-1 (14-15')         | 7/16/2020                 | 850   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -07   | BH-1 (19-20')         | 7/16/2020                 | 900   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -08   | BH-2 (0-1')           | 7/16/2020                 | 910   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -09   | BH-2 (2-3')           | 7/16/2020                 | 920   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| -10   | BH-2 (4-5')           | 7/16/2020                 | 930   |   | X                   |                           |                               | X   |      | 1            | N              | X | X |  |  |  |  |  |  |      |       |              |                         |             |                         | X              |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| Relinquished by: <i>Adrian</i>  |                       | Date: 7/17/20 Time: 14:30 |       | Received by: <i>[Signature]</i>   |                     | Date: 7/17/20 Time: 14:30 |                               | <div style="font-weight: bold; margin-bottom: 10px;">LAB USE ONLY</div> <div style="font-size: 10px;">Sample Temperature</div>  |      |              |                |   |   |  |  |  |  | <b>REMARKS:</b><br><input checked="" type="checkbox"/> Standard<br><br><input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.<br><br><input type="checkbox"/> Rush Charges Authorized<br><br><input type="checkbox"/> Special Report Limits or TRRP Report |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| Relinquished by:  |                       | Date: Time:               |       | Received by:  |                     | Date: Time:               |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |
| Relinquished by:  |                       | Date: Time:               |       | Received by: <i>[Signature]</i>   |                     | Date: 07/18/20 Time: 0845 |                               |   |      |              |                |   |   |  |  |  |  |  |  |      |       |              |                         |             |                         |                |                               |     |            |              |                         |             |                         |                |                     |                |            |             |                  |           |       |   |                      |                |          |       |          |         |     |   |                      |           |      |

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

1790 3030 2971

27-123 10 day



## Analysis Request of Chain of Custody Record

Page : 2 of 3

**Tetra Tech, Inc.**901 West Wall Street, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

L1241287

Client Name: Conoco Phillips

Site Manager: Christian Llull

Project Name: EVGSAU 2437-001

Contact Info: Email: christian.llull@tetratech.com  
Phone: (512) 338-1667Project Location: Lea County, New Mexico  
(county, state)

Project #: 212C-MD-02192

Invoice to: Accounts Payable  
901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical

Sampler Signature: Adrian

Comments: COPTETRA Acctnum

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

| LAB #<br>(LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING Volume/Amount |  | MATRIX |      |  | PRESERVATIVE METHOD |                  |     |      | # CONTAINERS | FILTERED (Y/N) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | HOLD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------|------------------------|--|--------|------|--|---------------------|------------------|-----|------|--------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                         |                       | YEAR: 2020             |  | WATER  | SOIL |  | HCL                 | HNO <sub>3</sub> | ICE | NONE |              |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Relinquished by: Date: 7/17/20 Time: 1430

Received by: Date: 7/17/20 Time: 14:30

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

**LAB USE ONLY****REMARKS:**

- ☒ Standard
- ☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

3.7-1-3.6

### Analysis Request of Chain of Custody Record


Page : 3 of 3

[illegible]

3.7-1=3.6 <sup>high</sup>  
A7



Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form

|  |              |     |    |
|--|--------------|-----|----|
| Client:  | 4124/287     |     |    |
| Cooler Received/Opened On: 07 / 18 / 20  | Temperature: | 3.6 |    |
| Received By: Brandan Stockton  |              |     |    |
| Signature:  |              |     |    |
|  |              |     |    |
| Receipt Check List   | NP           | Yes | No |
| COC Seal Present / Intact?   | ✓            |     |    |
| COC Signed / Accurate?   |              | ✓   |    |
| Bottles arrive intact?   |              | ✓   |    |
| Correct bottles used?  |              | ✓   |    |
| Sufficient volume sent?  |              | ✓   |    |
| If Applicable  |              |     |    |
| VOA Zero headspace?  |              |     |    |
| Preservation Correct / Checked?  |              |     |    |



Chris McCord

---

From: Abbott, Sam <Sam.Abbott@tetrattech.com>  
Sent: Tuesday, July 21, 2020 9:55 AM  
To: Chris McCord  
Subject: FW: Pace Analytical National Login for 212C-MD-02192 EVGSAU 2437-001 L1241287  
Attachments: COCL1241287.pdf; ln01L1241287.pdf

**CAUTION:** This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Chris,

Here are the revisions to this COC. With both this one and Philmex, the samples not listed here do not require revisions.

| Old           | New                  |
|---------------|----------------------|
| BH-1 (0-1')   | <b>BH-1 (2-3')</b>   |
| BH-1 (2-3')   | <b>BH-1 (4-5')</b>   |
| BH-1 (4-5')   | <b>BH-1 (6-7')</b>   |
| BH-1 (6-7')   | <b>BH-1 (8-9')</b>   |
| BH-1 (9-10')  | <b>BH-1 (11-12')</b> |
| BH-1 (14-15') | <b>BH-1 (16-17')</b> |
| BH-1 (19-20') | <b>BH-1 (21-22')</b> |
| BH-2 (0-1')   | <b>BH-2 (2-3')</b>   |
| BH-2 (2-3')   | <b>BH-2 (4-5')</b>   |
| BH-2 (4-5')   | <b>BH-2 (6-7')</b>   |
| BH-2 (6-7')   | <b>BH-2 (8-9')</b>   |
| BH-2 (9-10')  | <b>BH-2 (11-12')</b> |
| BH-2 (14-15') | <b>BH-2 (16-17')</b> |

Thank you!

Sam

---

From: Llull, Christian <Christian.Llull@tetrattech.com>  
Sent: Sunday, July 19, 2020 7:53 AM  
To: Abbott, Sam <Sam.Abbott@tetrattech.com>  
Subject: Fwd: Pace Analytical National Login for 212C-MD-02192 EVGSAU 2437-001 L1241287

Christian

Get [Outlook](#) for iOS

---

From: Chris McCord <cmccord@pacenational.com>  
Sent: Sunday, July 19, 2020 3:02:15 AM  
To: Llull, Christian <Christian.Llull@tetrattech.com>  
Subject: Pace Analytical National Login for 212C-MD-02192 EVGSAU 2437-001 L1241287

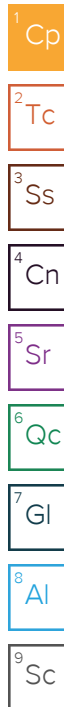


## ANALYTICAL REPORT

August 25, 2020

**ConocoPhillips - Tetra Tech**

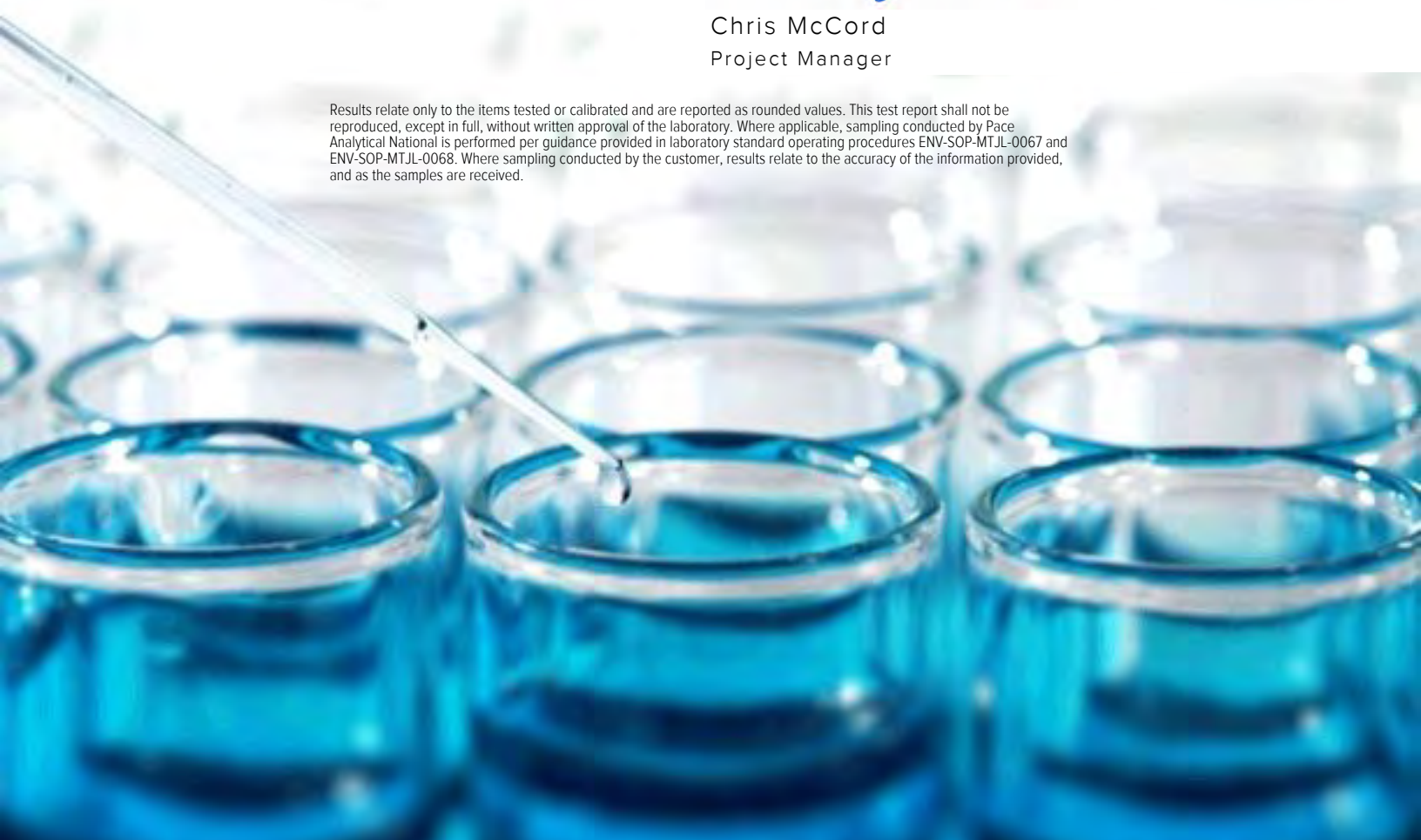
Sample Delivery Group: L1253109  
Samples Received: 08/21/2020  
Project Number: 212C-MD-02192  
Description: EVGSAU 2437-001  
Site: LEA COUNTY, NEW MEXICO  
Report To: Christian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701



Entire Report Reviewed By:

Chris McCord  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



|   |    |
|---|----|
| Cp: Cover Page                                      | 1  |
| Tc: Table of Contents                               | 2  |
| Ss: Sample Summary                                  | 3  |
| Cn: Case Narrative                                  | 4  |
| Sr: Sample Results                                  | 5  |
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| BH-6 (2-3) L1253109-02                              | 6  |
| BH-7 (0-1) L1253109-03                              | 7  |
| BH-7 (2-3) L1253109-04                              | 8  |
| Qc: Quality Control Summary                         | 9  |
| Total Solids by Method 2540 G-2011                  | 9  |
| Wet Chemistry by Method 300.0                       | 10 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 11 |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | 12 |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | 13 |
| Gl: Glossary of Terms                               | 14 |
| Al: Accreditations & Locations                      | 15 |
| Sc: Sample Chain of Custody                         | 16 |



## BH-6 (0-1) L1253109-01 Solid

Collected by  
Adrian

Collected date/time  
08/19/20 08:00

Received date/time  
08/21/20 09:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1530230 | 1        | 08/21/20 14:35        | 08/21/20 14:42     | MT      | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1529993 | 1        | 08/22/20 10:26        | 08/22/20 17:40     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1530338 | 1        | 08/21/20 15:07        | 08/22/20 00:53     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1530364 | 1        | 08/21/20 15:07        | 08/21/20 18:03     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1530250 | 1        | 08/21/20 17:09        | 08/24/20 11:47     | JN      | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## BH-6 (2-3) L1253109-02 Solid

Collected by  
Adrian

Collected date/time  
08/19/20 08:10

Received date/time  
08/21/20 09:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1530230 | 1        | 08/21/20 14:35        | 08/21/20 14:42     | MT      | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1529993 | 1        | 08/22/20 10:26        | 08/22/20 17:49     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1530338 | 1        | 08/21/20 15:07        | 08/22/20 01:16     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1530364 | 1        | 08/21/20 15:07        | 08/21/20 18:22     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1530250 | 1        | 08/21/20 17:09        | 08/23/20 11:24     | TJD     | Mt. Juliet, TN |

## BH-7 (0-1) L1253109-03 Solid

Collected by  
Adrian

Collected date/time  
08/19/20 08:20

Received date/time  
08/21/20 09:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1530230 | 1        | 08/21/20 14:35        | 08/21/20 14:42     | MT      | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1529993 | 1        | 08/22/20 10:26        | 08/22/20 17:59     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1530338 | 1        | 08/21/20 15:07        | 08/22/20 01:38     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1530364 | 1        | 08/21/20 15:07        | 08/21/20 18:41     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1530250 | 1        | 08/21/20 17:09        | 08/23/20 11:37     | TJD     | Mt. Juliet, TN |

## BH-7 (2-3) L1253109-04 Solid

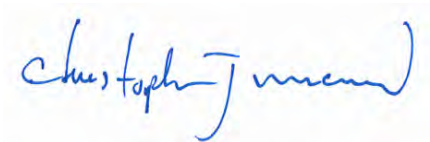
Collected by  
Adrian

Collected date/time  
08/19/20 08:30

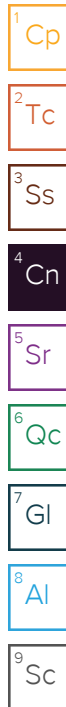
Received date/time  
08/21/20 09:30

| Method  | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1530230 | 1        | 08/21/20 14:35        | 08/21/20 14:42     | MT      | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1529993 | 1        | 08/22/20 10:26        | 08/22/20 18:08     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1530338 | 1        | 08/21/20 15:07        | 08/22/20 02:00     | JAH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1530364 | 1        | 08/21/20 15:07        | 08/21/20 19:00     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1530250 | 1        | 08/21/20 17:09        | 08/23/20 11:49     | TJD     | Mt. Juliet, TN |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord  
Project Manager



Collected date/time: 08/19/20 08:00

L1253109

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.4   |           | 1        | 08/21/2020 14:42     | <a href="#">WG1530230</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 10.6               | J         | 9.75            | 21.2            | 1        | 08/22/2020 17:40     | <a href="#">WG1529993</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0230          | 0.106           | 1        | 08/22/2020 00:53     | <a href="#">WG1530338</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.5               |           |                 | 77.0-120        |          | 08/22/2020 00:53     | <a href="#">WG1530338</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000522        | 0.00112         | 1        | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| Toluene                   | U                  |           | 0.00145         | 0.00559         | 1        | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| Ethylbenzene              | U                  |           | 0.000825        | 0.00280         | 1        | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| Total Xylenes             | U                  |           | 0.000985        | 0.00727         | 1        | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| (S) Toluene-d8            | 106                |           |                 | 75.0-131        |          | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| (S) 4-Bromofluorobenzene  | 94.2               |           |                 | 67.0-138        |          | 08/21/2020 18:03     | <a href="#">WG1530364</a> |
| (S) 1,2-Dichloroethane-d4 | 83.8               |           |                 | 70.0-130        |          | 08/21/2020 18:03     | <a href="#">WG1530364</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 7.47               |           | 1.71            | 4.24            | 1        | 08/24/2020 11:47     | <a href="#">WG1530250</a> |
| C28-C40 Oil Range    | 17.8               |           | 0.290           | 4.24            | 1        | 08/24/2020 11:47     | <a href="#">WG1530250</a> |
| (S) o-Terphenyl      | 66.5               |           |                 | 18.0-148        |          | 08/24/2020 11:47     | <a href="#">WG1530250</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |



Collected date/time: 08/19/20 08:10

L1253109

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 70.9   |           | 1        | 08/21/2020 14:42 | <a href="#">WG1530230</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 96.3         |           | 13.0      | 28.2      | 1        | 08/22/2020 17:49 | <a href="#">WG1529993</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0306    | 0.141     | 1        | 08/22/2020 01:16 | <a href="#">WG1530338</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6         |           |           | 77.0-120  |          | 08/22/2020 01:16 | <a href="#">WG1530338</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000851  | 0.00182   | 1        | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| Toluene                   | U            |           | 0.00237   | 0.00911   | 1        | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| Ethylbenzene              | U            |           | 0.00134   | 0.00455   | 1        | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| Total Xylenes             | U            |           | 0.00160   | 0.0118    | 1        | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| (S) Toluene-d8            | 103          |           |           | 75.0-131  |          | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| (S) 4-Bromofluorobenzene  | 94.4         |           |           | 67.0-138  |          | 08/21/2020 18:22 | <a href="#">WG1530364</a> |
| (S) 1,2-Dichloroethane-d4 | 83.5         |           |           | 70.0-130  |          | 08/21/2020 18:22 | <a href="#">WG1530364</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 10.1         |           | 2.27      | 5.64      | 1        | 08/23/2020 11:24 | <a href="#">WG1530250</a> |
| C28-C40 Oil Range    | U            |           | 0.387     | 5.64      | 1        | 08/23/2020 11:24 | <a href="#">WG1530250</a> |
| (S) o-Terphenyl      | 76.5         |           |           | 18.0-148  |          | 08/23/2020 11:24 | <a href="#">WG1530250</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 08/19/20 08:20

L1253109

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 72.6   |           | 1        | 08/21/2020 14:42 | <a href="#">WG1530230</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | U            |           | 12.7      | 27.5      | 1        | 08/22/2020 17:59 | <a href="#">WG1529993</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0299    | 0.138     | 1        | 08/22/2020 01:38 | <a href="#">WG1530338</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.1         |           |           | 77.0-120  |          | 08/22/2020 01:38 | <a href="#">WG1530338</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000820  | 0.00176   | 1        | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| Toluene                   | U            |           | 0.00228   | 0.00878   | 1        | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| Ethylbenzene              | U            |           | 0.00129   | 0.00439   | 1        | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| Total Xylenes             | U            |           | 0.00155   | 0.0114    | 1        | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| (S) Toluene-d8            | 104          |           |           | 75.0-131  |          | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| (S) 4-Bromofluorobenzene  | 96.1         |           |           | 67.0-138  |          | 08/21/2020 18:41 | <a href="#">WG1530364</a> |
| (S) 1,2-Dichloroethane-d4 | 84.9         |           |           | 70.0-130  |          | 08/21/2020 18:41 | <a href="#">WG1530364</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 3.40         | J         | 2.22      | 5.51      | 1        | 08/23/2020 11:37 | <a href="#">WG1530250</a> |
| C28-C40 Oil Range    | U            |           | 0.377     | 5.51      | 1        | 08/23/2020 11:37 | <a href="#">WG1530250</a> |
| (S) o-Terphenyl      | 68.4         |           |           | 18.0-148  |          | 08/23/2020 11:37 | <a href="#">WG1530250</a> |

|      |
|------|
| 1 Cp |
| 2 Tc |
| 3 Ss |
| 4 Cn |
| 5 Sr |
| 6 Qc |
| 7 Gl |
| 8 Al |
| 9 Sc |

Collected date/time: 08/19/20 08:30

L1253109

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 70.0   |           | 1        | 08/21/2020 14:42 | <a href="#">WG1530230</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | U            |           | 13.1      | 28.6      | 1        | 08/22/2020 18:08 | <a href="#">WG1529993</a> |

## Volatile Organic Compounds (GC) by Method 8015D/GRO

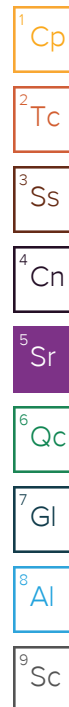
| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0310    | 0.143     | 1        | 08/22/2020 02:00 | <a href="#">WG1530338</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.0         |           |           | 77.0-120  |          | 08/22/2020 02:00 | <a href="#">WG1530338</a> |

## Volatile Organic Compounds (GC/MS) by Method 8260B

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000867  | 0.00186   | 1        | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| Toluene                   | U            |           | 0.00241   | 0.00929   | 1        | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| Ethylbenzene              | U            |           | 0.00137   | 0.00464   | 1        | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| Total Xylenes             | U            |           | 0.00163   | 0.0121    | 1        | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| (S) Toluene-d8            | 106          |           |           | 75.0-131  |          | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| (S) 4-Bromofluorobenzene  | 95.7         |           |           | 67.0-138  |          | 08/21/2020 19:00 | <a href="#">WG1530364</a> |
| (S) 1,2-Dichloroethane-d4 | 89.3         |           |           | 70.0-130  |          | 08/21/2020 19:00 | <a href="#">WG1530364</a> |

## Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 2.63         | J         | 2.30      | 5.71      | 1        | 08/23/2020 11:49 | <a href="#">WG1530250</a> |
| C28-C40 Oil Range    | U            |           | 0.391     | 5.71      | 1        | 08/23/2020 11:49 | <a href="#">WG1530250</a> |
| (S) o-Terphenyl      | 74.9         |           |           | 18.0-148  |          | 08/23/2020 11:49 | <a href="#">WG1530250</a> |



Total Solids by Method 2540 G-2011

[L1253109-01,02,03,04](#)

### Method Blank (MB)

(MB) R3562547-1 08/21/20 14:42

| Analyte      | MB Result<br>% | <u>MB Qualifier</u> | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.000          |                     |             |             |

### L1253109-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253109-01 08/21/20 14:42 • (DUP) R3562547-3 08/21/20 14:42

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | <u>DUP Qualifier</u> | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|----------------------|-------------------|
| Total Solids | 94.4                 | 96.2            | 1        | 1.84         |                      | 10                |

### Laboratory Control Sample (LCS)

(LCS) R3562547-2 08/21/20 14:42

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------|-------------------|-----------------|---------------|------------------|----------------------|
| Total Solids | 50.0              | 50.0            | 100           | 85.0-115         |                      |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 300.0

[L1253109-01,02,03,04](#)

## Method Blank (MB)

(MB) R3562822-1 08/22/20 14:29

|          | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------|-----------|--------------|--------|--------|
| Analyte  | mg/kg     |              | mg/kg  | mg/kg  |
| Chloride | U         |              | 9.20   | 20.0   |

## L1251858-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1251858-01 08/22/20 15:55 • (DUP) R3562822-3 08/22/20 16:05

|          | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg           | mg/kg      |          | %       |               | %              |
| Chloride | 43.1            | 44.7       | 1        | 3.67    |               | 20             |

## L1253169-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1253169-01 08/22/20 18:37 • (DUP) R3562822-4 08/22/20 18:46

|          | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg           | mg/kg      |          | %       |               | %              |
| Chloride | 15.4            | 14.7       | 1        | 4.17    | J             | 20             |

## Laboratory Control Sample (LCS)

(LCS) R3562822-2 08/22/20 14:38

|          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte  | mg/kg        | mg/kg      | %        | %           |               |
| Chloride | 200          | 193        | 96.5     | 90.0-110    |               |

## L1253169-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253169-05 08/22/20 19:05 • (MS) R3562822-5 08/22/20 19:15 • (MSD) R3562822-6 08/22/20 19:24

|          | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD   | RPD Limits |
|----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| Analyte  | mg/kg        | mg/kg           | mg/kg     | mg/kg      | %       | %        |          | %           |              |               | %     | %          |
| Chloride | 500          | 18.7            | 506       | 505        | 97.5    | 97.3     | 1        | 80.0-120    |              |               | 0.195 | 20         |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO L1253109-01,02,03,04

Method Blank (MB)

(MB) R3562811-2 08/21/20 17:10

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.7               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3562811-1 08/21/20 16:24

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 6.26                | 114           | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 100           | 77.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

L1253109-01,02,03,04

## Method Blank (MB)

(MB) R3562735-3 08/21/20 16:32

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 103                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 95.1               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 81.8               |              |                 | 70.0-130        |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562735-1 08/21/20 15:17 • (LCSD) R3562735-2 08/21/20 15:36

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.135               | 0.133                | 108           | 106            | 70.0-123         |               |                | 1.49     | 20              |
| Ethylbenzene              | 0.125                 | 0.128               | 0.116                | 102           | 92.8           | 74.0-126         |               |                | 9.84     | 20              |
| Toluene                   | 0.125                 | 0.126               | 0.118                | 101           | 94.4           | 75.0-121         |               |                | 6.56     | 20              |
| Xylenes, Total            | 0.375                 | 0.389               | 0.354                | 104           | 94.4           | 72.0-127         |               |                | 9.42     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 99.9          | 99.1           | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 101           | 95.8           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 91.5          | 92.4           | 70.0-130         |               |                |          |                 |

## L1252601-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252601-02 08/21/20 22:28 • (MS) R3562735-4 08/21/20 23:43 • (MSD) R3562735-5 08/22/20 00:02

| Analyte                   | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.0222                   | 0.307              | 0.294               | 228          | 217           | 1        | 10.0-149         | J5           | J5            | 4.33     | 37              |
| Ethylbenzene              | 0.125                 | 0.00793                  | 0.177              | 0.178               | 135          | 136           | 1        | 10.0-160         |              |               | 0.563    | 38              |
| Toluene                   | 0.125                 | 0.0526                   | 0.366              | 0.377               | 251          | 260           | 1        | 10.0-156         | J5           | J5            | 2.96     | 38              |
| Xylenes, Total            | 0.375                 | 0.0379                   | 0.560              | 0.576               | 139          | 143           | 1        | 10.0-160         |              |               | 2.82     | 38              |
| (S) Toluene-d8            |                       |                          |                    |                     | 98.7         | 99.7          |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                          |                    |                     | 91.1         | 94.8          |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                          |                    |                     | 108          | 93.6          |          | 70.0-130         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1253109-01,02,03,04

Method Blank (MB)

(MB) R3562650-1 08/22/20 07:52

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 79.6               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3562650-2 08/22/20 08:05

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 40.1                | 80.2          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 59.6          | 18.0-148         |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

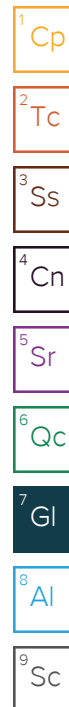
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

|                              |  |
|------------------------------|--|
| (dry)                        | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].   |
| MDL                          | Method Detection Limit.  |
| MDL (dry)                    | Method Detection Limit.  |
| RDL                          | Reported Detection Limit.  |
| RDL (dry)                    | Reported Detection Limit.  |
| Rec.                         | Recovery.  |
| RPD                          | Relative Percent Difference.   |
| SDG                          | Sample Delivery Group.   |
| (S)                          | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.   |
| U                            | Not detected at the Reporting Limit (or MDL where applicable).   |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.   |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.  |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.  |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.  |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.   |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.  |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.  |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.  |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.   |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.  |

## Qualifier Description

|    |  |
|----|--|
| J  | The identification of the analyte is acceptable; the reported value is an estimate.                    |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

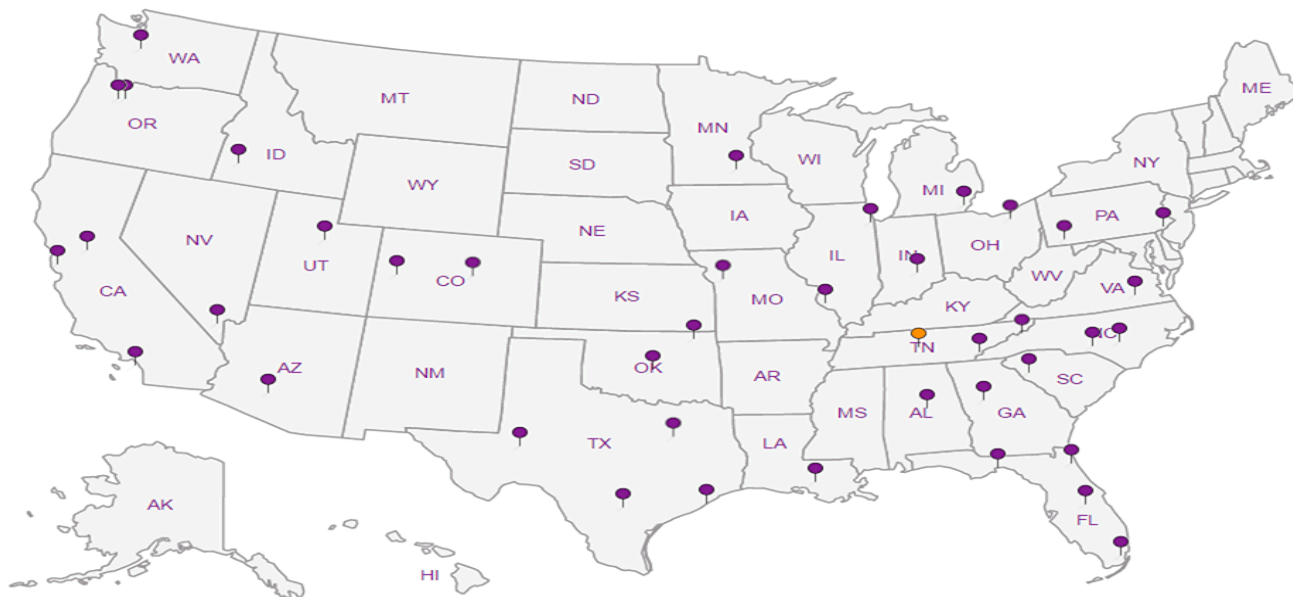
## Third Party Federal Accreditations

|                               |         |                     |               |
|-------------------------------|---------|---------------------|---------------|
| A2LA – ISO 17025              | 1461.01 | AIHA-LAP, LLC EMLAP | 100789        |
| A2LA – ISO 17025 <sup>5</sup> | 1461.02 | DOD                 | 1461.01       |
| Canada                        | 1461.01 | USDA                | P330-15-00234 |
| EPA-Crypto                    | TN00003 |                     |               |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**RAD SCREEN:** <0.5 mR/hr



## Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

|   |                           |            |           |
|---|---------------------------|------------|-----------|
| Client: <u>CORTETRA</u>                   | <u>11/23/09</u>           |            |           |
| Cooler Received/Opened On: <u>8/21/20</u> | Temperature: <u>3.9°C</u> |            |           |
| Received By: <u>LUCAS GREEN</u>           |                           |            |           |
| Signature: <u>[Signature]</u>             |                           |            |           |
|   |                           |            |           |
| <b>Receipt Check List</b>                 | <b>NP</b>                 | <b>Yes</b> | <b>No</b> |
| COC Seal Present / Intact?                | ✓                         |            |           |
| COC Signed / Accurate?                    |                           | ✓          |           |
| Bottles arrive intact?                    |                           | ✓          |           |
| Correct bottles used?                     |                           | ✓          |           |
| Sufficient volume sent?                   |                           | ✓          |           |
| If Applicable                             |                           |            |           |
| VOA Zero headspace?                       |                           |            |           |
| Preservation Correct / Checked?           |                           |            |           |



## **APPENDIX D**

### **Soil Boring Logs**



|  |             |  |            |
|--|-------------|--|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of entire excavated area from initial response, facing east | 1          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release                                 | 03/11/2020 |



|  |             |   |            |
|--|-------------|---|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of south end of excavated area, facing north | 2          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline                          | 03/11/2020 |





|  |             |   |            |
|--|-------------|---|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of release source flowline, facing north | 3          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release              | 03/11/2020 |



|  |             |   |            |
|--|-------------|---|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of north end of excavated area, facing south | 4          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release                  | 03/11/2020 |



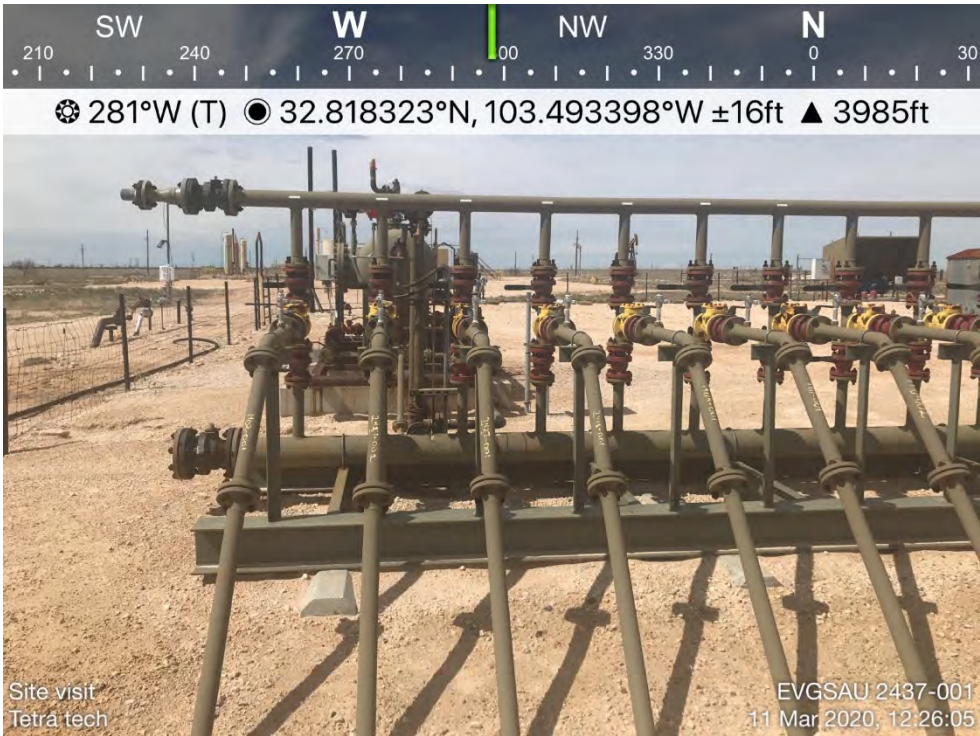


|  |             |  |            |
|--|-------------|--|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of release source flowline which has been replaced, facing west | 5          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release                                     | 03/11/2020 |



|  |             |  |            |
|--|-------------|--|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of end of replacement flowline in the south, facing north | 6          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release                               | 03/11/2020 |





|  |             |   |            |
|--|-------------|---|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of pipeline headers at east end of<br>Satellite #1 Facility, facing west | 7          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release  | 03/11/2020 |



|  |             |  |            |
|--|-------------|--|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of BH-3 area during site assessment<br>facing east. | 8          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release                         | 03/11/2020 |





|  |             |  |            |
|--|-------------|--|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of excavated area with surface pipelines marked during site assessment. | 9          |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release   | 07/16/2020 |



|  |             |   |            |
|--|-------------|---|------------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02192 | DESCRIPTION | View of BH-1 area during site assessment facing west, with Satellite #1 facility to rear. | 10         |
|  | SITE NAME   | EVGSAU 2437-001 Flowline Release  | 07/16/2020 |



## **APPENDIX E**

# **Photographic Documentation**

|   |  |            |  |                            |  |                             |  |                          |  |        |  |
|---|--|------------|--|----------------------------|--|-----------------------------|--|--------------------------|--|--------|--|
| 212C-MD-02192   |  | TETRA TECH |  | LOG OF BORING BH-1         |  |                             |  | Page 1 of 1              |  |        |  |
| Project Name: EVGSAU 2437-001 Release Site Assessment   |  |            |  |                            |  |                             |  |                          |  |        |  |
| Borehole Location: GPS Coordinates: 32.818068, -103.492862  |  |            |  | Surface Elevation: 3989 ft |  |                             |  |                          |  |        |  |
| Borehole Number: BH-1   |  |            |  | Borehole Diameter (in.): 5 |  | Date Started: 7/16/2020     |  | Date Finished: 7/16/2020 |  |        |  |
| WATER LEVEL OBSERVATIONS  |  |            |  |                            |  |                             |  |                          |  |        |  |
| While Drilling  |  |            |  | N/A ft                     |  | Upon Completion of Drilling |  |                          |  | N/A ft |  |
| Remarks:  |  |            |  |                            |  |                             |  |                          |  |        |  |
| MATERIAL DESCRIPTION  |  |            |  |                            |  |                             |  |                          |  |        |  |
| DEPTH (ft)  |  |            |  |                            |  |                             |  |                          |  |        |  |
| REMARKS   |  |            |  |                            |  |                             |  |                          |  |        |  |
| -- Excavated to approximately 1.5' bgs during initial response activities.  |  |            |  |                            |  |                             |  |                          |  |        |  |
| -CL- SANDY CLAY: Brown, soft to medium stiff, occasionally cemented, with some pea gravel, no odor, no staining.                                |  |            |  |                            |  |                             |  |                          |  |        |  |
| -SM- SILTY SAND: Brown, medium dense, moderately cemented, with pea gravel, with interbedded sandstone layers, no odor, no staining.            |  |            |  |                            |  |                             |  |                          |  |        |  |
| -ML- SANDY SILT: White, dense, calcareous, moderately cemented, with some gravel, no odor, no staining. Interbedded with hard caprock calcrete. |  |            |  |                            |  |                             |  |                          |  |        |  |
| Bottom of borehole at 22.0 feet.  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California, Test Pit                                   |  |            |  |                            |  |                             |  |                          |  |        |  |
| Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel                             |  |            |  |                            |  |                             |  |                          |  |        |  |
| Notes: Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data.             |  |            |  |                            |  |                             |  |                          |  |        |  |
| Logger: Adrian Garcia   |  |            |  |                            |  |                             |  |                          |  |        |  |
| Drilling Equipment: Air Rotary  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Driller: Scarborough Drilling   |  |            |  |                            |  |                             |  |                          |  |        |  |

|   |  |            |  |                            |  |                             |  |                          |  |        |  |
|---|--|------------|--|----------------------------|--|-----------------------------|--|--------------------------|--|--------|--|
| 212C-MD-02192   |  | TETRA TECH |  | LOG OF BORING BH-2         |  |                             |  | Page 1 of 1              |  |        |  |
| Project Name: EVGSAU 2437-001 Release Site Assessment   |  |            |  |                            |  |                             |  |                          |  |        |  |
| Borehole Location: GPS Coordinates: 32.818160, -103.492938  |  |            |  | Surface Elevation: 3988 ft |  |                             |  |                          |  |        |  |
| Borehole Number: BH-2   |  |            |  | Borehole Diameter (in.): 5 |  | Date Started: 7/16/2020     |  | Date Finished: 7/16/2020 |  |        |  |
| WATER LEVEL OBSERVATIONS  |  |            |  |                            |  |                             |  |                          |  |        |  |
| While Drilling  |  |            |  | N/A ft                     |  | Upon Completion of Drilling |  |                          |  | N/A ft |  |
| Remarks:  |  |            |  |                            |  |                             |  |                          |  |        |  |
| MATERIAL DESCRIPTION  |  |            |  |                            |  |                             |  |                          |  |        |  |
| DEPTH (ft)  |  |            |  |                            |  |                             |  |                          |  |        |  |
| REMARKS   |  |            |  |                            |  |                             |  |                          |  |        |  |
| -- Excavated to approximately 1.5' bgs during initial response activities.  |  |            |  |                            |  |                             |  |                          |  |        |  |
| -CL- SANDY CLAY: Brown, soft to medium stiff, occasionally cemented, with some pea gravel, grading to SILT (ML), no odor, no staining.          |  |            |  |                            |  |                             |  |                          |  |        |  |
| -ML- SANDY SILT: White, dense, calcareous, moderately cemented, with some gravel, no odor, no staining. Interbedded with hard caprock calcrete. |  |            |  |                            |  |                             |  |                          |  |        |  |
| Bottom of borehole at 17.0 feet.  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Sampler Types:  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Operation Types:  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Notes:  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data.                    |  |            |  |                            |  |                             |  |                          |  |        |  |
| Logger: Adrian Garcia   |  |            |  |                            |  |                             |  |                          |  |        |  |
| Drilling Equipment: Air Rotary  |  |            |  |                            |  |                             |  |                          |  |        |  |
| Driller: Scarborough Drilling   |  |            |  |                            |  |                             |  |                          |  |        |  |

|  |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |   |            |              |
|--|----------------|-------------------|--------------------------------|----------------------------|---------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|---|------------|--------------|
| 212C-MD-02192  |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-3</b>  |                     |                         |                   | Page<br>1 of 1           |                  |                   |             |   |            |              |
| Project Name: EVGSAU 2437-001 Release Site Assessment  |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |   |            |              |
| Borehole Location: GPS Coordinates: 32.818188, -103.492956   |                |                   |                                | Surface Elevation: 3988 ft |                     |                         |                   |                          |                  |                   |             |   |            |              |
| Borehole Number: BH-3  |                |                   |                                | Borehole Diameter (in.): 5 |                     | Date Started: 7/16/2020 |                   | Date Finished: 7/16/2020 |                  |                   |             |   |            |              |
| <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>  </u> N/A ft    Upon Completion of Drilling <u>  </u> N/A ft<br>Remarks: |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |   |            |              |
| DEPTH (ft)   | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION  | DEPTH (ft) | REMARKS      |
|  |                |                   | ExStik                         | PID                        |                     |                         |                   | LL                       | PI               |                   |             |   |            |              |
|  |                |                   | 190                            | 0                          |                     |                         |                   |                          |                  |                   |             | -CL- SANDY CLAY: Brown, soft to medium stiff, occasionally cemented, with some pea gravel, grading to SILT (ML), no odor, no staining.          | 1.5        | BH-3 (0-1')  |
|  |                |                   | 380                            | 0                          |                     |                         |                   |                          |                  |                   |             | -ML- SANDY SILT: White, dense, calcareous, moderately cemented, with some gravel, no odor, no staining. Interbedded with hard caprock calcrete. |            | BH-3 (2-3')  |
| 5  |                |                   | 110                            | 0                          |                     |                         |                   |                          |                  |                   |             |   |            | BH-3 (4-5')  |
|  |                |                   | 88                             | 0                          |                     |                         |                   |                          |                  |                   |             |   |            | BH-3 (6-7')  |
| 10   |                |                   | 73                             | 0                          |                     |                         |                   |                          |                  |                   |             |   | 10         | BH-3 (9-10') |

Bottom of borehole at 10.0 feet.

|  |   |   |  |   |
|--|---|---|--|---|
| <b>Sampler Types:</b><br>Split Spoon<br>Shelby<br>Bulk Sample<br>Grab Sample | Acetate Liner<br>Vane Shear<br>California<br>Test Pit | <b>Operation Types:</b><br>Mud Rotary<br>Continuous Flight Auger<br>Wash Rotary | Hand Auger<br>Air Rotary<br>Direct Push<br>Core Barrel | <b>Notes:</b><br>Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data. |
| <b>Logger:</b> Adrian Garcia   |   | <b>Drilling Equipment:</b> Air Rotary   |  | <b>Driller:</b> Scarborough Drilling  |

|  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  |                                  |  |  |  |  |
|--|--|-------------------|--|--|--|--|--|--|--|--|--|---------------------------|--|--|--|--|--|--|--|-------------------------|--|--|--|--|--------------------------|--|----------------|--|--|----------------------------------|--|--|--|--|
| 212C-MD-02192  |  | <b>TETRA TECH</b> |  |  |  |  |  |  |  |  |  | <b>LOG OF BORING BH-4</b> |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  | Page<br>1 of 1 |  |  |                                  |  |  |  |  |
| Project Name: EVGSAU 2437-001 Release Site Assessment  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  |                                  |  |  |  |  |
| Borehole Location: GPS Coordinates: 32.818025, -103.492831   |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | Surface Elevation: 3989 ft   |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  |                                  |  |  |  |  |
| Borehole Number: BH-4  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | Borehole Diameter (in.): 5   |  |  |  |  | Date Started: 7/16/2020 |  |  |  |  | Date Finished: 7/16/2020 |  |                |  |  |                                  |  |  |  |  |
| <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DEPTH (ft)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">OPERATION TYPE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CHLORIDE FIELD SCREENING (ppm)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC FIELD SCREENING (ppm)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLE RECOVERY (%)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MOISTURE CONTENT (%)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DRY DENSITY (pcf)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">LIQUID LIMIT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PLASTICITY INDEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MINUS NO. 200 (%)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GRAPHIC LOG</div> </div> </div> |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling $\nabla$ <u>N/A</u> ft    Upon Completion of Drilling $\nabla$ <u>N/A</u> ft<br><br>Remarks: |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  |                                  |  |  |  |  |
|  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | <b>MATERIAL DESCRIPTION</b>  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | DEPTH (ft)                       |  |  |  |  |
| 5  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | 1.5  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | BH-4 (0-1')                      |  |  |  |  |
| 40   |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | 3.5  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | BH-4 (2-3')                      |  |  |  |  |
| 160  |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | BH-4 (4-5')                      |  |  |  |  |
| 94   |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | BH-4 (6-7')                      |  |  |  |  |
| 60   |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  |  |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | BH-4 (9-10')                     |  |  |  |  |
| 10   |  |                   |  |  |  |  |  |  |  |  |  |                           |  |  | 10   |  |  |  |  |                         |  |  |  |  |                          |  |                |  |  | Bottom of borehole at 10.0 feet. |  |  |  |  |

|   |  |   |
|---|--|---|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Hand Auger<br/>  Air Rotary<br/>  Direct Push<br/>  Core Barrel         </div> </div> | <b>Notes:</b><br>Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data. |
| <b>Logger:</b> Adrian Garcia  | <b>Drilling Equipment:</b> Air Rotary  | <b>Driller:</b> Scarborough Drilling  |

|  |                |                   |                                |                            |                     |                         |                   |                          |                      |     |              |
|--|----------------|-------------------|--------------------------------|----------------------------|---------------------|-------------------------|-------------------|--------------------------|----------------------|-----|--------------|
| 212C-MD-02192  |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-5</b>  |                     |                         |                   | Page<br>1 of 1           |                      |     |              |
| Project Name: EVGSAU 2437-001 Release Site Assessment  |                |                   |                                |                            |                     |                         |                   |                          |                      |     |              |
| Borehole Location: GPS Coordinates: 32.818159, -103.492741   |                |                   |                                | Surface Elevation: 3989 ft |                     |                         |                   |                          |                      |     |              |
| Borehole Number: BH-5  |                |                   |                                | Borehole Diameter (in.): 5 |                     | Date Started: 7/16/2020 |                   | Date Finished: 7/16/2020 |                      |     |              |
| <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>∇</u> N/A ft    Upon Completion of Drilling <u>∇</u> N/A ft<br>Remarks: |                |                   |                                |                            |                     |                         |                   |                          |                      |     |              |
| DEPTH (ft)   | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX     |     |              |
|  |                |                   | ExStik                         | PID                        |                     |                         |                   | LL                       | PI                   |     |              |
|  |                |                   |                                |                            |                     |                         |                   |                          | MINUS NO. 200 (%)    |     |              |
|  |                |                   |                                |                            |                     |                         |                   |                          | GRAPHIC LOG          |     |              |
|  |                |                   |                                |                            |                     |                         |                   |                          | MATERIAL DESCRIPTION |     |              |
|  |                |                   |                                |                            |                     |                         |                   |                          | DEPTH (ft)           |     |              |
|  |                |                   |                                |                            |                     |                         |                   |                          | REMARKS              |     |              |
|  |                |                   | 190                            | 0                          |                     |                         |                   |                          |                      | 1.5 | BH-5 (0-1')  |
|  |                |                   | 56                             | 0                          |                     |                         |                   |                          |                      | 3.5 | BH-5 (2-3')  |
| 5  |                |                   | 60                             | 0                          |                     |                         |                   |                          |                      |     | BH-5 (4-5')  |
|  |                |                   | 60                             | 0                          |                     |                         |                   |                          |                      |     | BH-5 (6-7')  |
| 10   |                |                   | 34                             | 0                          |                     |                         |                   |                          |                      | 10  | BH-5 (9-10') |

Bottom of borehole at 10.0 feet.

|  |   |   |  |   |
|--|---|---|--|---|
| <b>Sampler Types:</b><br><input checked="" type="checkbox"/> Split Spoon<br><input checked="" type="checkbox"/> Shelby<br><input checked="" type="checkbox"/> Bulk Sample<br><input checked="" type="checkbox"/> Grab Sample | <input checked="" type="checkbox"/> Acetate Liner<br><input checked="" type="checkbox"/> Vane Shear<br><input checked="" type="checkbox"/> California<br><input checked="" type="checkbox"/> Test Pit | <b>Operation Types:</b><br><input checked="" type="checkbox"/> Mud Rotary<br><input checked="" type="checkbox"/> Continuous Flight Auger<br><input checked="" type="checkbox"/> Wash Rotary | <input checked="" type="checkbox"/> Hand Auger<br><input checked="" type="checkbox"/> Air Rotary<br><input checked="" type="checkbox"/> Direct Push<br><input checked="" type="checkbox"/> Core Barrel | <b>Notes:</b><br>Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data. |
| <b>Logger:</b> Adrian Garcia   |   | <b>Drilling Equipment:</b> Air Rotary   |  | <b>Driller:</b> Scarborough Drilling  |



|  |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |   |             |  |
|--|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|---|-------------|--|
| 212C-MD-02192  |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-6</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |   |             |  |
| Project Name: EVGSAU 2437-001 Release Site Assessment      |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |   |             |  |
| Borehole Location: GPS Coordinates: 32.818203, -103.492989 |                |                   |                                |                            | Surface Elevation: 3988 ft |                         |                   |                          |                  |                   |             |   |             |  |
| Borehole Number: BH-6                                      |                |                   |                                | Borehole Diameter (in.): 4 |                            | Date Started: 8/19/2020 |                   | Date Finished: 8/19/2020 |                  |                   |             |   |             |  |
| DEPTH (ft)   | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | WATER LEVEL OBSERVATIONS  |             |  |
|  |                |                   | ExStik                         | PID                        |                            |                         |                   |                          |                  |                   |             | While Drilling $\nabla$ <u>N/A</u> ft    Upon Completion of Drilling $\nabla$ <u>N/A</u> ft<br>Remarks: |             |  |
| MATERIAL DESCRIPTION                                       |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | DEPTH (ft)  | REMARKS     |  |
| 1  |                |                   | 183                            | 0                          |                            |                         |                   |                          |                  |                   |             | 0-1'  | BH-6 (0-1') |  |
| 3  |                |                   | 90                             | 0                          |                            |                         |                   |                          |                  |                   |             | 2-3'  | BH-6 (2-3') |  |

Bottom of borehole at 3.0 feet.

|   |  |   |
|---|--|---|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Hand Auger<br/>  Air Rotary<br/>  Direct Push<br/>  Core Barrel         </div> </div> | <b>Notes:</b><br>Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data. |
|---|--|---|

|                       |                                |                     |
|-----------------------|--------------------------------|---------------------|
| Logger: Adrian Garcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech |
|-----------------------|--------------------------------|---------------------|

|  |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |  |  |         |             |
|--|----------------|-------------------|--------------------------------|----------------------------|---------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|--|--|---------|-------------|
| 212C-MD-02192  |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-7</b>  |                     |                         |                   | Page<br>1 of 1           |                  |                   |             |  |  |         |             |
| Project Name: EVGSAU 2437-001 Release Site Assessment      |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |  |  |         |             |
| Borehole Location: GPS Coordinates: 32.818211, -103.492947 |                |                   |                                | Surface Elevation: 3988 ft |                     |                         |                   |                          |                  |                   |             |  |  |         |             |
| Borehole Number: BH-7                                      |                |                   |                                | Borehole Diameter (in.): 4 |                     | Date Started: 8/19/2020 |                   | Date Finished: 8/19/2020 |                  |                   |             |  |  |         |             |
| DEPTH (ft)   | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling $\nabla$ <u>N/A</u> ft    Upon Completion of Drilling $\nabla$ <u>N/A</u> ft<br><br>Remarks: |  |         |             |
|  |                |                   | ExStik                         | PID                        |                     |                         |                   | LL                       | PI               |                   |             | MATERIAL DESCRIPTION   | DEPTH (ft)   | REMARKS |             |
| 1  |                |                   | 123                            | 0                          |                     |                         |                   |                          |                  |                   |             | -  | -CL- SANDY CLAY: Brown, soft to medium stiff, occasionally cemented, with some pea gravel, no odor, no staining. | -       | BH-7 (0-1') |
| 2  |                |                   | 235                            | 0                          |                     |                         |                   |                          |                  |                   |             | 3  | BH-7 (2-3')  |         |             |
| Bottom of borehole at 3.0 feet.                            |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |  |  |         |             |

|   |  |   |
|---|--|---|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Hand Auger<br/>  Air Rotary<br/>  Direct Push<br/>  Core Barrel         </div> </div> | <b>Notes:</b><br>Laboratory analytical sample intervals are shown in the "Remarks" column. Surface elevations are based on Google Earth data. |
|---|--|---|

|                       |                                |                     |
|-----------------------|--------------------------------|---------------------|
| Logger: Adrian Garcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech |
|-----------------------|--------------------------------|---------------------|

EVGSAU 2437-001.GPJ 10-20-20 TT-AUSTIN GEOTECH NOWELL3 2015 TT TEMPLATE DECEMBER WELL.GDT

Revised 5-16-12 (RHM)

## **APPENDIX F**

### **NMSLO Seed Mixture Details**



United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for **Lea County, New Mexico**



October 26, 2020

# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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## How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

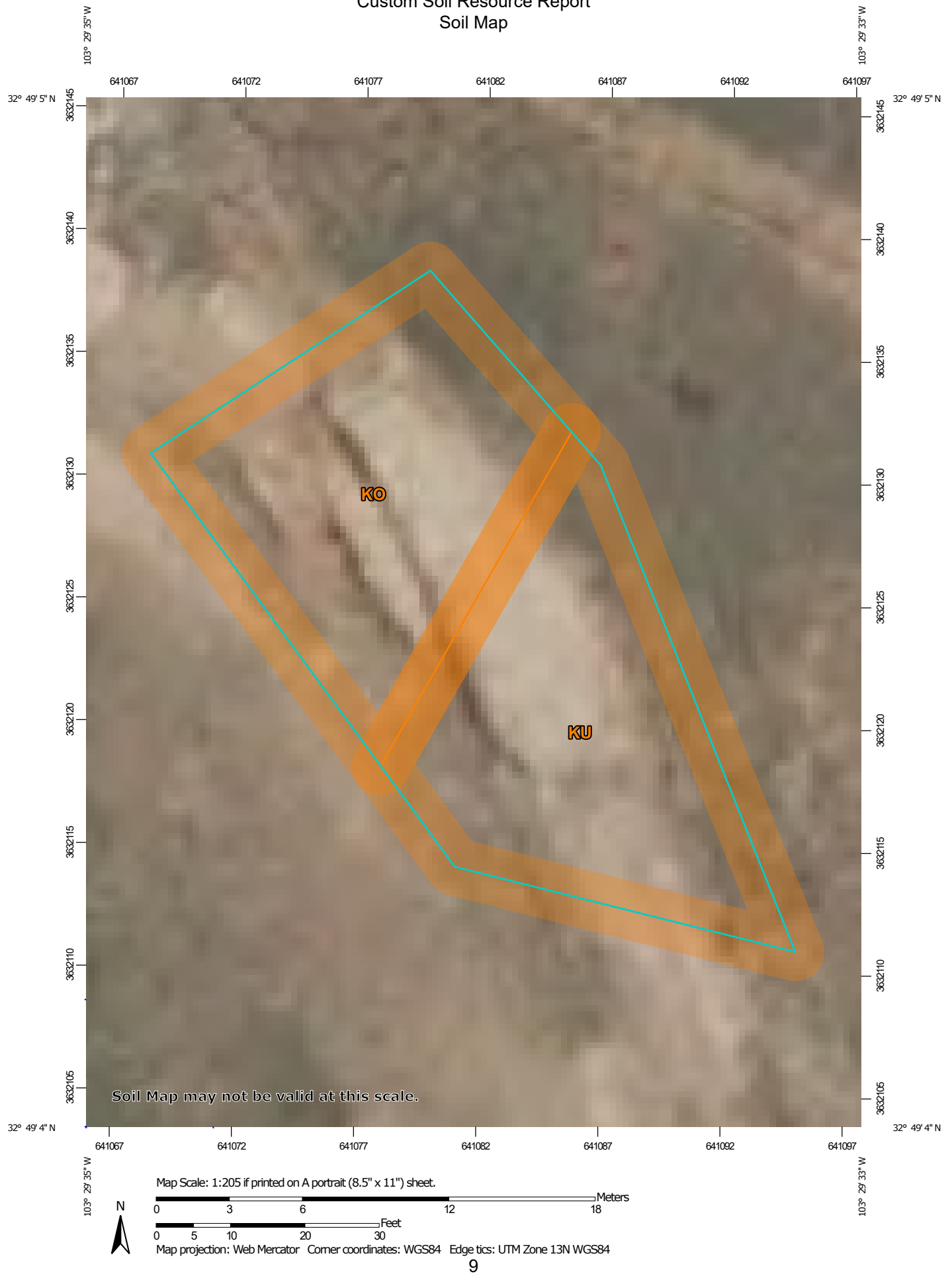
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

## **Soil Map**

---

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report  
Soil Map






## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals


## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                       | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 0.0          | 49.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 0.0          | 50.3%          |
| <b>Totals for Area of Interest</b> |   | <b>0.1</b>   | <b>100.0%</b>  |

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

## Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

## Lea County, New Mexico

## KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

## Map Unit Setting

*National map unit symbol:* 2tw43  
*Elevation:* 2,500 to 4,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

## Map Unit Composition

*Kimbrough, dry, and similar soils:* 80 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Kimbrough, Dry

## Setting

*Landform:* Plains, playa rims  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, concave  
*Parent material:* Loamy eolian deposits derived from sedimentary rock

## Typical profile

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

## Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

## Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Minor Components****Eunice***Percent of map unit:* 10 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Convex*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ*Hydric soil rating:* No**Spraberry***Percent of map unit:* 6 percent*Landform:* Plains, playa rims*Down-slope shape:* Linear, convex*Across-slope shape:* Linear*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ*Hydric soil rating:* No**Kenhill***Percent of map unit:* 4 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Linear*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ*Hydric soil rating:* No**KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol:* 2tw46*Elevation:* 2,500 to 4,800 feet*Mean annual precipitation:* 14 to 16 inches*Mean annual air temperature:* 57 to 63 degrees F*Frost-free period:* 180 to 220 days*Farmland classification:* Not prime farmland**Map Unit Composition***Kimbrough and similar soils:* 45 percent*Lea and similar soils:* 25 percent*Minor components:* 30 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Kimbrough****Setting***Landform:* Plains, playa rims*Down-slope shape:* Linear, convex*Across-slope shape:* Linear, concave*Parent material:* Loamy eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

**Typical profile**

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

**Description of Lea****Setting**

*Landform:* Plains  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

**Typical profile**

*A - 0 to 10 inches:* loam  
*Bk - 10 to 18 inches:* loam  
*Bkk - 18 to 26 inches:* gravelly fine sandy loam  
*Bkkm - 26 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 22 to 30 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 3.0



## Custom Soil Resource Report

*Available water capacity:* Very low (about 2.9 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Hydric soil rating:* No

### Minor Components

#### Douro

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

#### Kenhill

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ

*Hydric soil rating:* No

#### Spraberry

*Percent of map unit:* 6 percent

*Landform:* Plains, playa rims

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

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**NMSLO Seed Mix****Sandy Loam (SL)****SANDY LOAM (SL) SITES SEED MIXTURE:**

| COMMON NAME           | VARIETY            | APPLICATION<br>RATE (PLS/Acre) | DRILL<br>BOX |
|-----------------------|--------------------|--------------------------------|--------------|
| <b>Grasses:</b>       |                    |                                |              |
| Galleta grass         | Viva, VNS, So.     | 2.5                            | F            |
| Little bluestem       | Cimmaron, Pastura  | 2.5                            | F            |
| Blue grama            | Hachita, Lovington | 2.0                            | D            |
| Sideoats grama        | Vaughn, El Reno    | 2.0                            | F            |
| Sand dropseed         | VNS, Southern      | 1.0                            | S            |
| <b>Forbs:</b>         |                    |                                |              |
| Indian blanketflower  | VNS, Southern      | 1.0                            | D            |
| Parry penstemon       | VNS, Southern      | 1.0                            | D            |
| Blue flax             | Appar              | 1.0                            | D            |
| Desert globemallow    | VNS, Southern      | 1.0                            | D            |
| <b>Shrubs:</b>        |                    |                                |              |
| Fourwing saltbush     | VNS, Southern      | 2.0                            | D            |
| Common winterfat      | VNS, Southern      | 1.0                            | F            |
| Apache plume          | VNS, Southern      | 0.75                           | F            |
| <b>Total PLS/acre</b> |                    | <b>17.75</b>                   |              |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



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

CONDITIONS

Action 11045

**CONDITIONS OF APPROVAL**

|   |                                  |                  |                         |                       |
|---|----------------------------------|------------------|-------------------------|-----------------------|
| Operator:<br>CONOCOPHILLIPS COMPANY<br>Office SP2-12-W156 | P.O.Box 2197<br>Houston, TX77252 | OGRID:<br>217817 | Action Number:<br>11045 | Action Type:<br>C-141 |
| OCD Reviewer<br>ceads                                     | Condition<br>None                |                  |                         |                       |