



March 13, 2024

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

**Re: Remediation Report and Closure Request
Maverick Permian, LLC
SEMU Permian #31 Injection Line Release
Unit Letter C, Section 19, Township 20 South, Range 38 East
Lea County, New Mexico
Incident ID# nPAC0535052112**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Natural Resources (Maverick) to address a release that occurred at an injection line near the South East Monument Unit (SEMU) Permian #31 injection well, API #30-025-07817, located in Unit Letter C, Section 19, Township 20 South, Range 38 East, in Lea County, New Mexico. The release site (Site) coordinates are 32.563811°, -103.190141°. The Site location is shown in **Figures 1** and **2**.

BACKGROUND

There is not an official C-141 form available for this release. According to the C-141 notes on file with the New Mexico Oil Conservation District (NMOCD) provided in **Attachment 1**, a release was discovered on November 29, 2005, from a buried 2-inch steel injection line associated with the SEMU Permian #31 injection well. The release consisted of 82 barrels (bbls) of produced water, of which 60 bbls were recovered by a vacuum truck during the initial response. The C-141 notes describe the affected area as a 12-foot by 483-foot section of caliche lease road and a 39-foot by 27-foot area of pasture. The Site was assigned Incident ID of nPAC0535052112. The initial release, assessment activities, and remediation were performed under contract with ConocoPhillips, the previous site owner and Operator. In June 2022 Maverick acquired this site from ConocoPhillips and took responsibility for the release.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified by 19.15.29 New Mexico Administrative Code (NMAC). The Site is located in an area with low karst potential.

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Site Remediation Closure Report
SEMU Permian #031 Injection Line Release
nPAC0535052112

Maverick Permian, LLC
March 24, 2024

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter (approximately ½-mile) radius of the Site. The search radius had to be extended to 1,600 meters (approximately 1 mile) before one (1) water well was encountered. The average depth to groundwater based on this well is 84 ft below ground surface (bgs).

On March 7, 2024, Tetra Tech and West Texas Water Well mobilized to the SEMU Permian #027 (API 30-025-07814) Well Pad and installed a Depth-To-Water (DTW) boring to 55 feet bgs at 32.560329°, -103.189912°, approximately 0.25-miles south of the Site. The DTW boring did not identify groundwater in the upper 55 feet which verifies that groundwater is below 55 feet at the Site.

Site characterization data are included in **Attachment 2** and boring logs are provided in **Attachment 3**.

REGULATORY FRAMEWORK

Based upon the release footprint location 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 (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table 1 of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Closure Criteria for Soils Impacted by a Release

| Constituent | Remediation RRAL |
|-------------------|------------------|
| Chloride | 10,000 mg/kg |
| TPH (GRO+DRO+ORO) | 2,500 mg/kg |
| TPH (DRO+ORO) | 1,000 mg/kg |
| BTEX | 50 mg/kg |
| Benzene | 10 mg/kg |

Additionally, in accordance with the New Mexico Oil Conservation District (NMOCD) guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) are as follows:

Reclamation Requirements

| Constituent | Remediation RRAL |
|-------------------|------------------|
| Chloride | 600 mg/kg |
| TPH (GRO+DRO+ORO) | 100 mg/kg |
| BTEX | 50 mg/kg |
| Benzene | 10 mg/kg |

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March 24, 2024

SITE ASSESSMENT

The release extent indicated in **Figure 3** is based on information found in the C-141 description and correspondence with COP personnel. In order to achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel mobilized to Site and conducted soil sampling on August 27, 2020. A total of 10 soil borings (BH-1 through BH-10) were installed using an air rotary drilling rig. Three (3) borings (BH-1, BH-2, and BH-3) were installed within the release extent to a depth of 25 feet bgs to achieve vertical delineation of the release. The remaining seven (7) borings (BH-4 through BH-10) were installed along the perimeter of the release extent to a depth of 10 feet bgs to achieve horizontal delineation. Due to steel surface lines in the vicinity of the release, the air rotary drilling rig could not access the area east of the release extent. Therefore, two (2) hand auger borings (BH-7 and BH-8) were installed along the eastern perimeter to a depth of five (5) feet bgs to achieve horizontal delineation east of the release extent. **Figure 3** depicts the release extent and the August 2020 soil boring locations.

A total of 46 samples were collected from the 10 borings and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Boring logs are included in **Attachment 3** presenting soil descriptions, sample depths, and field screening data from the August 2020 assessment activities.

SUMMARY OF SAMPLING RESULTS

Results from the August 2020 soil sampling event are summarized in **Table 1**. No laboratory analytical results reported concentrations greater than the chloride Reclamation Requirement of 600 mg/kg for shallow soils less than 4 feet bgs or Table I Closure Criteria for groundwater from 51 feet to 100 feet bgs of 10,000 mg/kg.

Analytical results associated with the 0 to 1 foot and 1 to 2 foot intervals at BH-1 reported TPH at concentrations greater than the Reclamation Requirements (100 mg/kg). The remainder of the analytical results associated with the samples collected reported concentrations as less than respective Reclamation Requirements or RRALs for TPH. The analytical results associated with all samples analyzed were below the BTEX Reclamation Requirements of 50 mg/kg and benzene Reclamation Requirements of 10 mg/kg therefore, both horizontal and vertical delineation was achieved during the August 2020 soil assessment activities.

INITIAL CLOSURE REQUEST

Tetra Tech, on behalf of ConocoPhillips, submitted a Release Characterization and Closure Request to NMOCD On January 6, 2021. On March 17, 2023, the NMOCD rejected the closure request with the following comments:

“The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.”

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BH-1 identified impact that exceeds closure criteria. This area must be fully delineated and meet 19.15.29 NMAC.

A deferral can only be granted on an active well pad and not on a road, right-of-way, or in the pasture. A clarification document has been placed on the OCD website to clarify the matter.”

At the time of this communication from NMOCD, Maverick was the site owner and operator. Maverick contracted Tetra Tech to respond to the closure request denial by mobilizing to remediate and reclaim the site to address the NMOCD comments above.

REMEDICATION AND CONFIRMATION SAMPLING

Tetra Tech, along with remediation subcontractor McNabb Enterprises, mobilized to the site on October 27, 2023 to begin hydro-excavation of flowlines and completed excavation and backfill on November 7, 2023. **Figure 4** shows the remediation area where soil and impacted pad material were removed from an approximately 500 square foot area surrounding assessment boring BH-1, where TPH concentrations greater than Reclamation Requirements were reported down to 3 feet bgs. A portion of the site was cleared using hydro-excavation to determine underground line locations. McNabb proceeded to excavate and transport 72 cubic yards of impacted soil/pad material (caliche) to the R360 Halfway landfill in New Mexico.

A total of four (4) sidewall and three (3) floor confirmation samples were obtained after excavation to verify reclamation/remediation standards had been obtained with a sampling density of approximately one sample per 125 square feet. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of chloride by method SM4500Cl-B, TPH by EPA Method 8015M, and BTEX by EPA Method 8021B.

The laboratory analytical results screened against Reclamation Requirements are summarized in **Table 2**. Results for all samples were reported as non-detect concentrations or at concentrations less than Reclamation Requirements. Subsequent to receipt of final confirmation sampling results, McNabb backfilled the excavation with clean topsoil and caliche obtained from the Bob McCasland pit to return the remediation surface to match the surrounding caliche well pad.

Laboratory analytical data packages including chain of custody documentation are included in **Attachment 4**. Photographic Documentation showing the excavated area and final grading after backfilling is provided in **Attachment 5**.

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CONCLUSIONS

The SEMU Permian #031 well pad has been remediated to achieve remediation/reclamation standards as specified in NMAC 19.15.29. Therefore, Maverick Permian, LLC respectfully requests closure of this release. The final C-141 Closure form has been signed and digitally submitted electronically during the submission of this report to the NMOCD Permitting Portal. If you have any questions concerning the assessment or remediation activities performed at this Site.

Sincerely,



Stephen Jester
Project Manager
Tetra Tech, Inc.



Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

cc:

Mr. Bryce Wagoner, Maverick Natural Resources

Site Remediation Closure Report
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March 24, 2024

LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Release Assessment Map
- Figure 4 – Remediation and Conformation Sampling

Tables

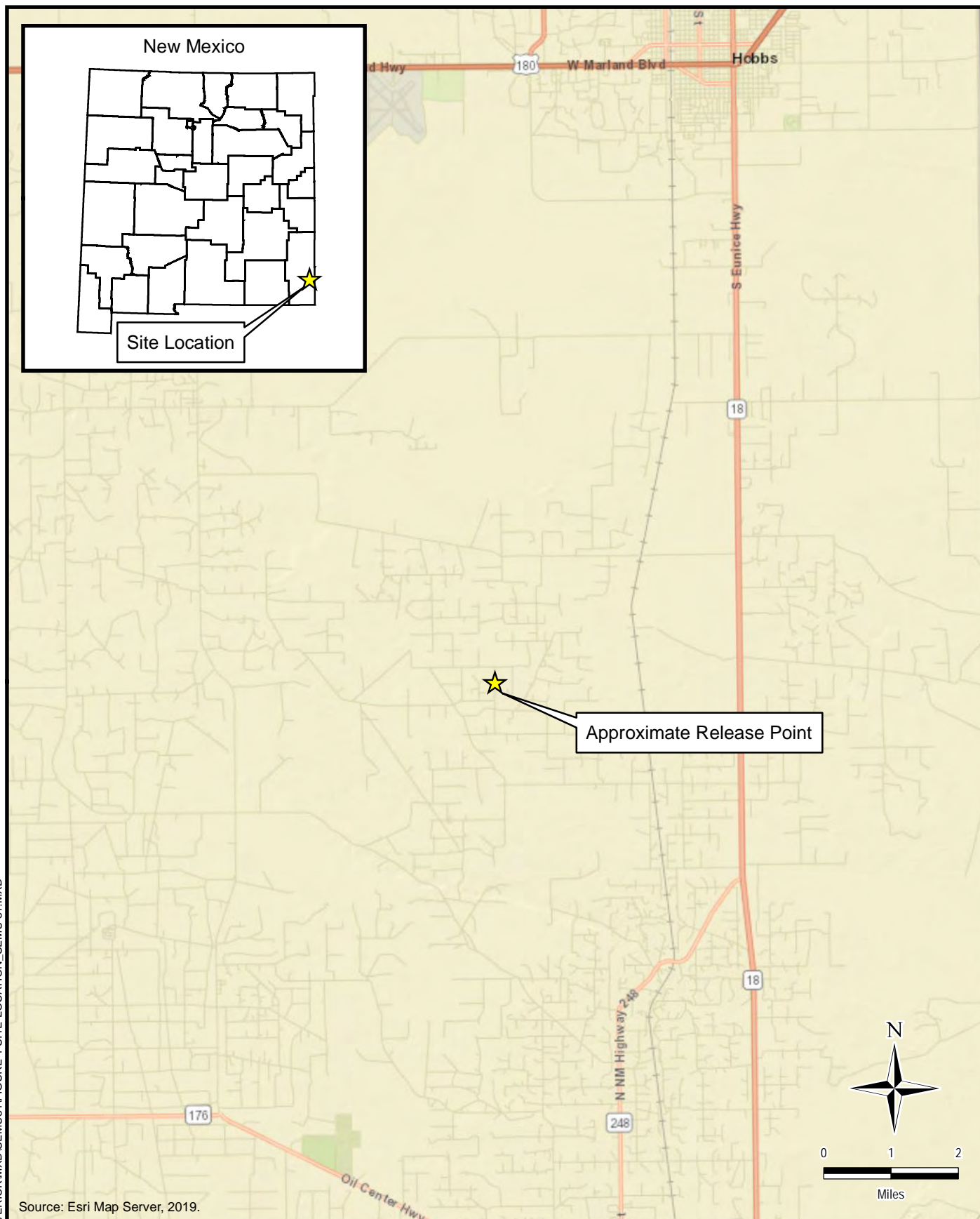
- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Confirmation Sample Results

Attachments

- Attachment 1 – C-141 Confirmation
- Attachment 2 – Site Characterization Data
- Attachment 3 – Boring Logs
- Attachment 4 – Laboratory Analytical Data
- Attachment 5 – Photographic Documentation




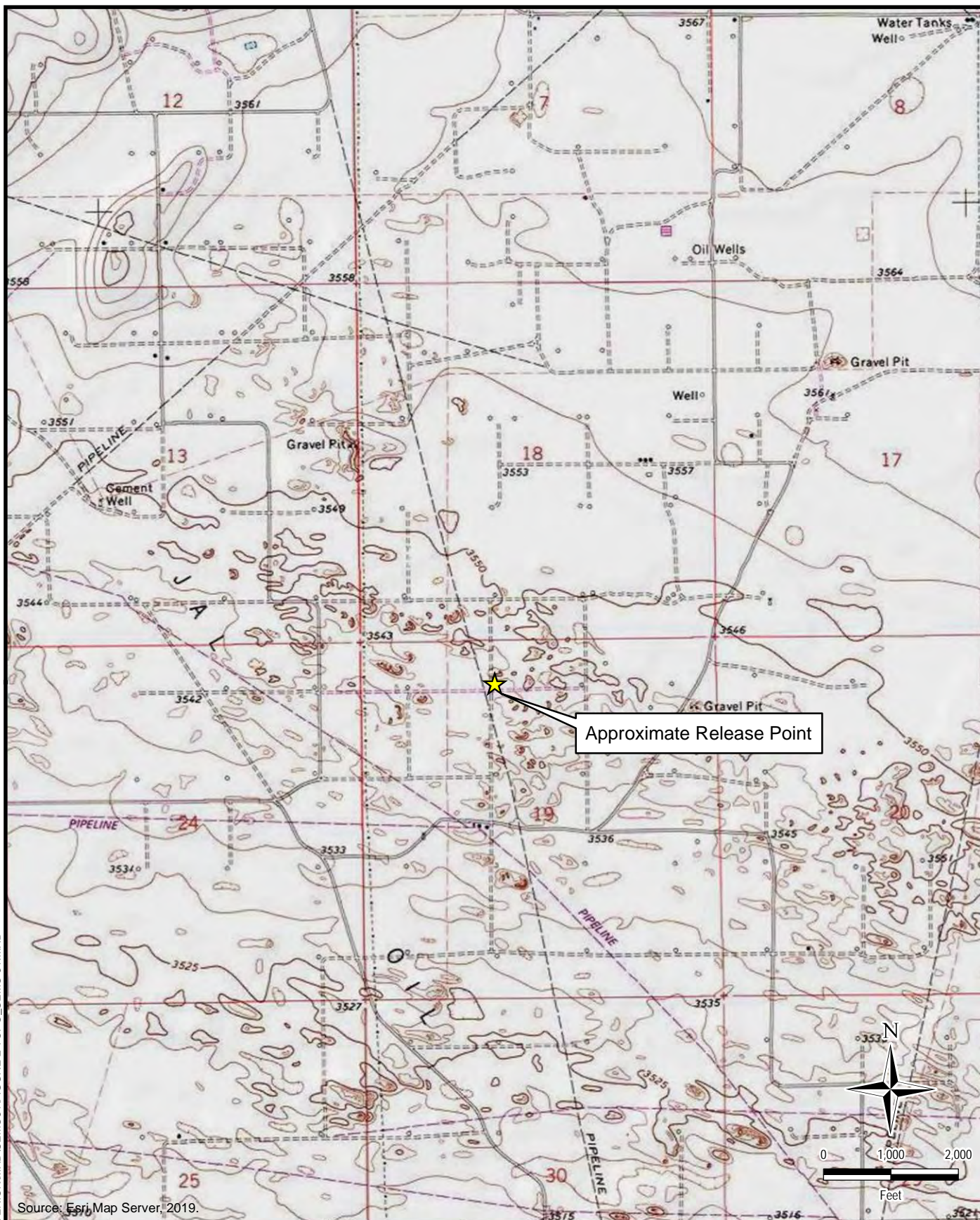
FIGURES



Source: Esri Map Server, 2019.

DOCUMENT PATH: D:\MAVERICK\W\SEMUM031\FIGURE 1 SITE LOCATION_SEMU 31.MXD

| | | | |
|--|---|--|----------------------------|
|  <p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p> | MAVERICK NATURAL RESOURCES NPAC0535052112 (32.564083°, -103.190025°) LEA COUNTY, NEW MEXICO | | PROJECT NO.: 212C-MD-03271 |
| | SEMU PERMIAN #031 INJECTION LINE RELEASE SITE LOCATION MAP | | DATE: NOVEMBER 09, 2023 |
| | | | DESIGNED BY: AAM |
| | | | Figure No. 1 |



DOCUMENT PATH: D:\MAVERICK\MD\SEMUM31\FIGURE 2.TOPO_SEMU 31.MXD

Source: Esri, Map Server, 2019.



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MAVERICK NATURAL RESOURCES

NPAC0535052112
 (32.564083°, -103.190025°)
 LEA COUNTY, NEW MEXICO

**SEMU PERMIAN #031 INJECTION LINE RELEASE
 TOPOGRAPHIC MAP**

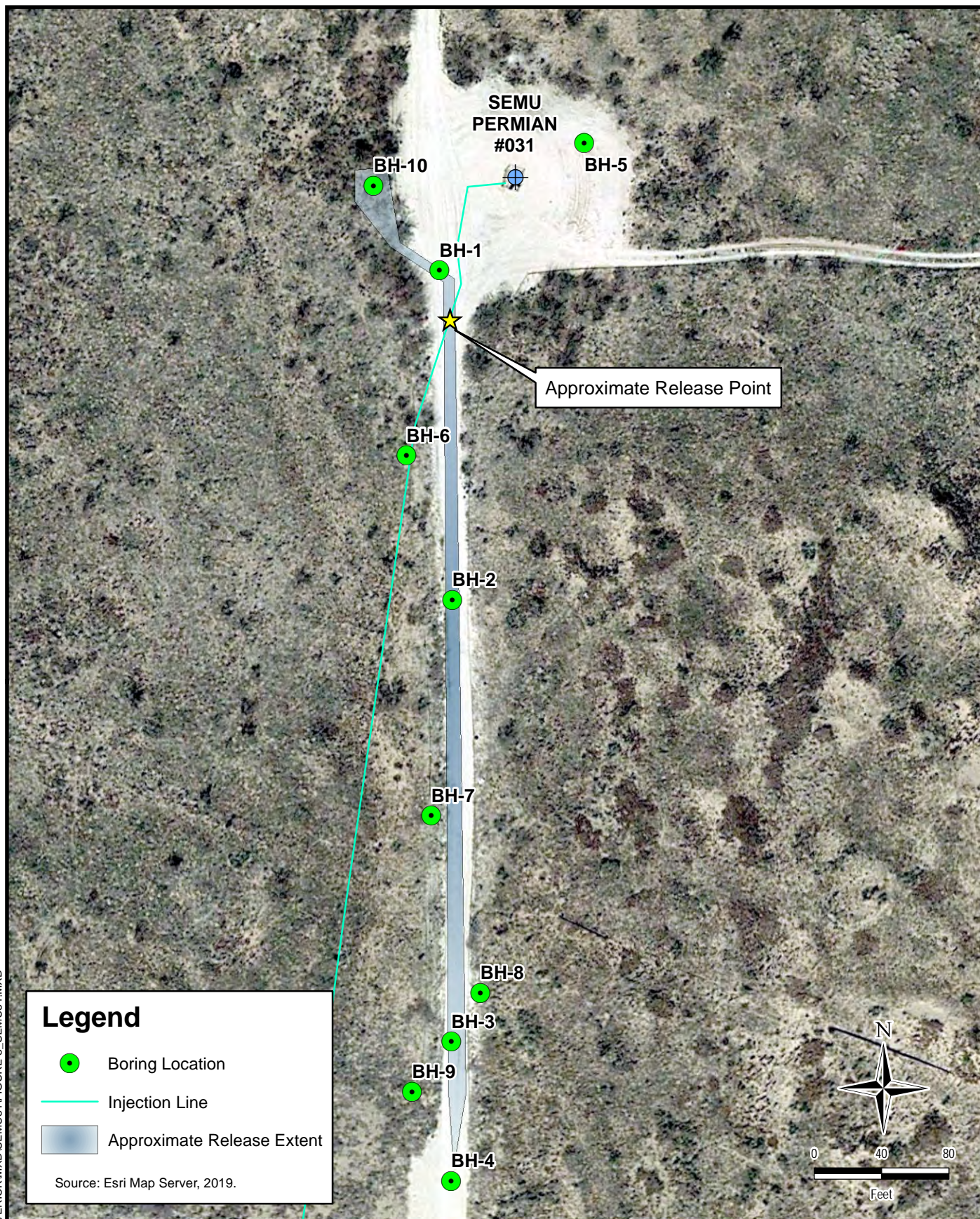
PROJECT NO.: 212C-MD-03271

DATE: NOVEMBER 09, 2023

DESIGNED BY: AAM

Figure No.

2




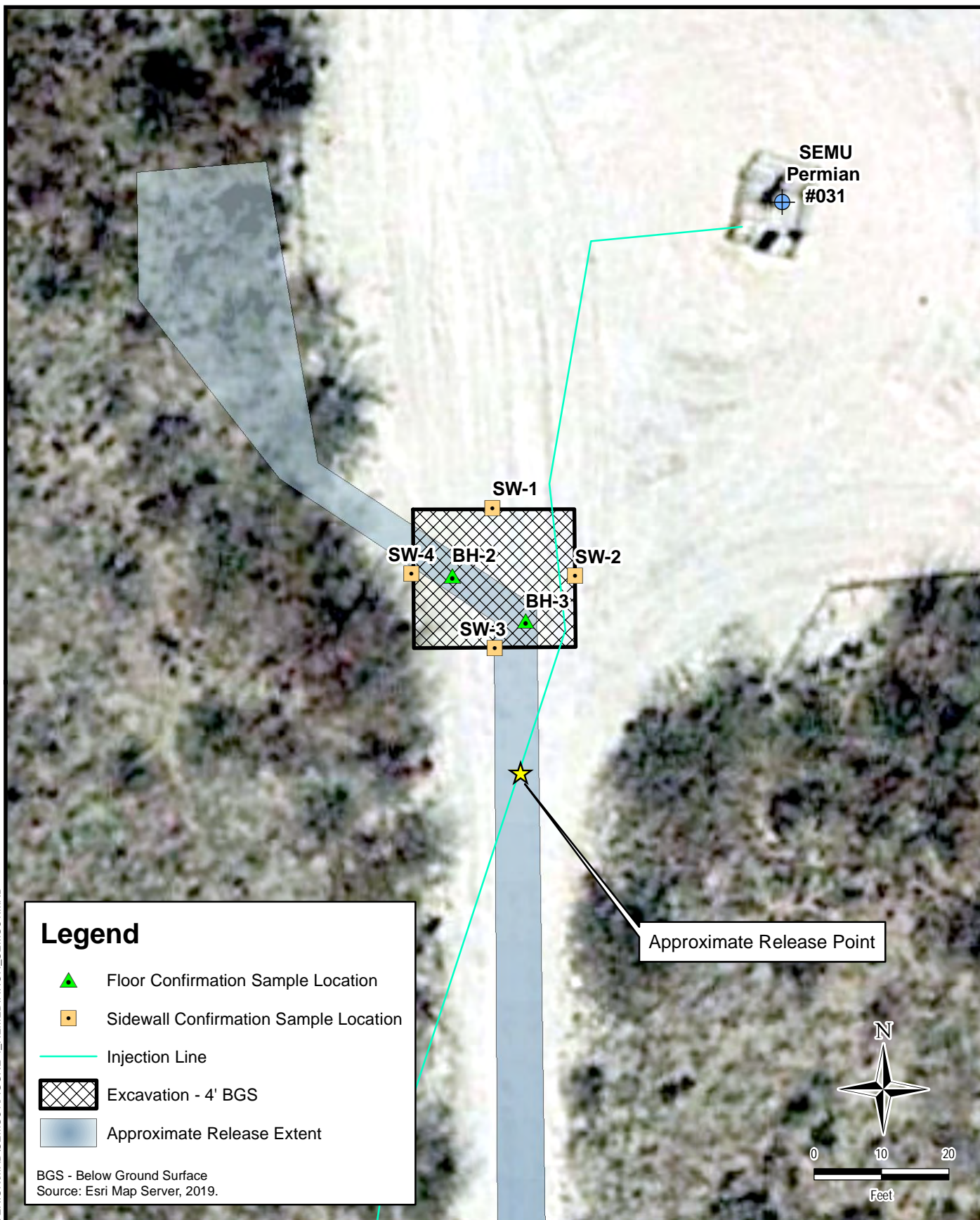
Legend

- Boring Location
- Injection Line
- Approximate Release Extent

Source: Esri Map Server, 2019.

DOCUMENT PATH: D:\MAVERICK\MXD\SEMUS1\FIGURE 3_SEMUS1.MXD

| | | |
|---|---|---|
|  www.tetratech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946 | MAVERICK NATURAL RESOURCES NPAC0535052112 (32.564083°, -103.190025°) LEA COUNTY, NEW MEXICO | PROJECT NO.: 212C-MD-03271 DATE: NOVEMBER 09, 2023 DESIGNED BY: AAM |
| | SEMU PERMIAN #031 INJECTION LINE RELEASE SITE ASSESSMENT MAP | Figure No. 3 |



DOCUMENT PATH: D:\MAVERICK\MXD\SEMUI31\FIGURE 4_REMEDIATION_SEMU31.MXD

Legend

- Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location
- Injection Line
- Excavation - 4' BGS
- Approximate Release Extent

BGS - Below Ground Surface
Source: Esri Map Server, 2019.

Approximate Release Point



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MAVERICK NATURAL RESOURCES

NPAC0535052112
 (32.564083°, -103.190025°)
 LEA COUNTY, NEW MEXICO

SEMUI PERMIAN #031 INJECTION LINE RELEASE
 REMEDIATION AND CONFIRMATION SAMPLING

PROJECT NO.: 212C-MD-03271

DATE: NOVEMBER 10, 2023

DESIGNED BY: AAM

Figure No.

4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENTS NPAC0535052112 & NPRS0534230461
MAVERICK PERMIAN, LLC
SEMU PERMIAN #31 INJECTION LINE RELEASES
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Sample Depth Interval | Chloride ¹ | | BTEX ² | | | | | | | | TPH ³ | | | | | | | | |
|---|-------------|-----------------------|-----------------------|---|-------------------|---|-----------|---|--------------|---|----------------|-----------------|------------------|---------|------------------|--------|--------|------|--------|------------|--------------------------|
| | | | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO ⁴ | | 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 | mg/kg | Q | mg/kg | Q | |
| Reclamation Requirements (19.15.29 NMAC) | | | 600 | | 10 | | | | | | | | 50 | | | | | | | 100 | |
| BH-1 | 8/27/2020 | 0-1 | 21.5 | | < 0.00112 | | < 0.00559 | | < 0.00280 | | < 0.00727 | | - | | < 0.106 | | 1390 | | 3040 | | 4430 |
| | | 2-3 | 9.4 | J | < 0.00105 | | < 0.00523 | | < 0.00261 | | 0.00119 | J | 0.00119 | J | < 0.102 | | 37.9 | | 100.0 | | 138 |
| | | 4-5 | < 104.0 | | < 0.00109 | | < 0.00544 | | < 0.00272 | | < 0.00707 | | - | | < 0.104 | | 8.05 | | 14.5 | | 22.6 |
| | | 6-7 | 57.8 | | < 0.00110 | | < 0.00551 | | < 0.00275 | | < 0.00716 | | - | | < 0.105 | | 11.5 | | 39.5 | | 51.0 |
| | | 9-10 | 41.1 | | < 0.00110 | | < 0.00552 | | < 0.00276 | | < 0.00718 | | - | | < 0.105 | | 1.89 | J | 1.98 | J | 3.87 |
| BH-2 | 8/27/2020 | 0-1 | 9.55 | J | < 0.00105 | | < 0.00527 | | < 0.00263 | | < 0.00685 | | - | | < 0.103 | | 57.9 | | 171 | | 229 |
| | | 2-3 | < 20.2 | | < 0.00102 | | < 0.00512 | | < 0.00256 | | < 0.00666 | | - | | < 0.101 | | < 4.05 | | 1.81 | J | 1.81 |
| | | 4-5 | 29.8 | | < 0.00107 | | < 0.00535 | | < 0.00268 | | < 0.00696 | | - | | < 0.104 | | 6.12 | | 18.2 | | 24.3 |
| | | 6-7 | 609 | | < 0.00112 | | < 0.00558 | | < 0.00279 | | < 0.00725 | | - | | < 0.106 | | < 4.23 | | 2.97 | J | 2.97 |
| | | 9-10 | 472 | | < 0.00110 | | < 0.00550 | | < 0.00275 | | < 0.00715 | | - | | < 0.105 | | < 4.20 | | < 4.20 | | - |
| | | 14-15 | 433 | | < 0.00108 | | < 0.00541 | | < 0.00271 | | < 0.00703 | | - | | < 0.104 | | 1.80 | J | 3.9 | B J | 5.7 |
| | | 19-20 | 1550 | | < 0.00121 | | < 0.00606 | | < 0.00303 | | < 0.00788 | | - | | < 0.111 | | < 4.42 | | 3.11 | B J | 3.11 |
| 24-25 | 929 | | < 0.00106 | | < 0.00530 | | < 0.00265 | | < 0.00689 | | - | | 0.0259 | J | < 4.12 | | 1.09 | B J | 1.12 | | |
| BH-3 | 8/27/2020 | 0-1 | 73.9 | | < 0.00105 | | < 0.00524 | | < 0.00262 | | < 0.00681 | | - | | 0.0293 | J | 5.74 | | 27.8 | | 33.57 |
| | | 2-3 | 33.1 | | < 0.00104 | | < 0.00520 | | < 0.00260 | | < 0.00677 | | - | | 0.0295 | J | 17.2 | | 61.6 | | 78.83 |
| | | 4-5 | 31.1 | | < 0.00104 | | < 0.00519 | | < 0.00259 | | < 0.00674 | | - | | 0.0225 | J | < 4.08 | | 4.05 | B J | 4.07 |
| | | 6-7 | 79.5 | | < 0.00107 | | < 0.00534 | | < 0.00267 | | < 0.00695 | | - | | < 0.103 | | < 4.14 | | 3.91 | B J | 3.91 |
| | | 9-10 | 80.8 | | < 0.00106 | | < 0.00531 | | < 0.00265 | | < 0.00690 | | - | | 0.0285 | J | < 1.66 | | 1.06 | B J | 1.09 |
| BH-4 | 8/27/2020 | 0-1 | 83.1 | | < 0.00104 | | < 0.00519 | | < 0.00260 | | < 0.00675 | | - | | 0.0979 | J | 2.77 | J | 7.11 | B | 9.98 |
| | | 2-3 | 176 | | < 0.00111 | | < 0.00555 | | < 0.00277 | | < 0.00721 | | - | | < 0.105 | | 9.15 | | 35.3 | | 44.45 |
| | | 4-5 | 285 | | < 0.00106 | | < 0.00530 | | < 0.00265 | | < 0.00689 | | - | | < 0.103 | | 1.81 | J | 6.99 | B | 8.8 |
| | | 6-7 | 91.4 | | < 0.00103 | | < 0.00516 | | < 0.00258 | | < 0.00671 | | - | | < 0.103 | | < 4.06 | | 1.21 | B J | 1.21 |
| | | 9-10 | 148 | | < 0.00110 | | < 0.00551 | | < 0.00276 | | < 0.00716 | | - | | < 0.105 | | < 4.20 | | 1.39 | B J | 1.39 |
| BH-5 | 8/27/2020 | 0-1 | < 20.4 | | < 0.00104 | | < 0.00519 | | < 0.00260 | | < 0.00675 | | - | | < 0.102 | | 1.89 | J | 6.37 | B | 8.26 |
| | | 2-3 | < 20.3 | | < 0.00103 | | < 0.00517 | | < 0.00258 | | < 0.00672 | | - | | < 0.102 | | < 4.07 | | 4.02 | B J | 4.02 |
| | | 4-5 | < 21.9 | | < 0.00119 | | < 0.00597 | | < 0.00298 | | < 0.00775 | | - | | < 0.110 | | < 4.39 | | 2.89 | B J | 2.89 |
| | | 6-7 | 84.7 | | < 0.00112 | | < 0.00562 | | < 0.00281 | | < 0.00731 | | - | | < 0.106 | | < 4.25 | | 2.15 | B J | 2.15 |
| | | 9-10 | 38.4 | | < 0.00106 | | < 0.00528 | | < 0.00264 | | < 0.00687 | | - | | < 0.103 | | < 4.11 | | 1.50 | B J | 1.50 |
| BH-6 | 8/27/2020 | 0-1 | 10.2 | J | < 0.00101 | | < 0.00504 | | < 0.00252 | | < 0.00655 | | - | | < 0.100 | | 5.84 | | 24.1 | | 29.9 |
| | | 2-3 | < 20.8 | | < 0.00108 | | < 0.00540 | | < 0.00270 | | < 0.00702 | | - | | < 0.104 | | 1.81 | J | 7.65 | B | 9.46 |
| BH-7 | 8/27/2020 | 0-1 | < 20.0 | | < 0.00100 | | < 0.00502 | | < 0.00251 | | < 0.00653 | | - | | < 0.100 | | 6.99 | | 34.5 | | 41.49 |
| | | 2-3 | < 20.1 | | 0.000503 | J | < 0.00503 | | < 0.00252 | | < 0.00654 | 0.000503 | J | < 0.100 | | < 4.01 | | 1.13 | J | 1.13 | |
| | | 4-5 | < 20.0 | | < 0.00100 | | < 0.00502 | | < 0.00251 | | < 0.00653 | | - | | 0.0331 | J | 3.08 | J | < 4.01 | | 3.11 |
| BH-8 | 8/27/2020 | 0-1 | < 20.0 | | < 0.00100 | | < 0.00502 | | < 0.00251 | | < 0.00653 | | - | | < 0.100 | | 3.21 | J | 5.16 | | 8.37 |
| | | 2-3 | < 20.0 | | < 0.00100 | | < 0.00502 | | < 0.00251 | | < 0.00653 | | - | | < 0.100 | | 2.16 | J | 2.59 | J | 4.75 |



TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENTS NPAC0535052112 & NPRS0534230461
MAVERICK PERMIAN, LLC
SEMU PERMIAN #31 INJECTION LINE RELEASES
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Sample Depth Interval | Chloride ¹ | | BTEX ² | | | | | | | | | | TPH ³ | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|-----------------------|---|-------------------|---|-----------|---|--------------|---|---------------|---|------------|---|------------------|---|--------|---|--------|-----|-----------|---|-------|--|--|--|--|--|--|--|--|--|--|-------|--|------------|
| | | | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO ⁴ | | DRO | | ORO | | Total TPH | | | | | | | | | | | | | | | |
| | | | | | 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 | mg/kg | | | | | | | | | | | | | |
| Reclamation Requirements (19.15.29 NMAC) | | | 600 | | 10 | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | 100 |
| | | 4-5 | < 20.0 | | < 0.00100 | | < 0.00502 | | < 0.00251 | | < 0.00653 | | - | | < 0.100 | | 2.52 | J | 3.24 | J | | | | | | | | | | | | | | 5.76 | | |
| BH-9 | 8/27/2020 | 0-1 | 15.4 | J | < 0.00102 | | < 0.00509 | | < 0.00254 | | < 0.00661 | | - | | < 0.102 | | 3.75 | J | 13.6 | | | | | | | | | | | | | | | 17.35 | | |
| | | 2-3 | < 20.2 | | < 0.00102 | | < 0.00508 | | < 0.00254 | | < 0.00661 | | - | | < 0.101 | | 1.77 | J | 0.869 | J | | | | | | | | | | | | | | 2.64 | | |
| | | 4-5 | < 20.9 | | < 0.00109 | | < 0.00547 | | < 0.00274 | | < 0.00712 | | - | | < 0.105 | | < 4.19 | | 2.27 | J | | | | | | | | | | | | | | 2.27 | | |
| | | 6-7 | < 20.9 | | 0.000919 | J | < 0.00546 | | < 0.00273 | | < 0.00710 | | - | | < 0.105 | | < 4.18 | | 1.3 | J | | | | | | | | | | | | | | 1.3 | | |
| | | 9-10 | < 20.8 | | < 0.00108 | | < 0.00540 | | < 0.00270 | | < 0.00703 | | - | | < 0.104 | | < 4.16 | | < 4.16 | B J | | | | | | | | | | | | | | - | | |
| BH-10 | 8/27/2020 | 0-1 | < 21.0 | | < 0.00110 | | < 0.00552 | | < 0.00276 | | < 0.00718 | | - | | < 0.105 | | < 4.21 | | 1.65 | B J | | | | | | | | | | | | | | 1.65 | | |
| | | 2-3 | < 20.4 | | < 0.00104 | | < 0.00520 | | < 0.00260 | | < 0.00675 | | - | | < 0.102 | | 21.0 | | 105 | | | | | | | | | | | | | | | 126 | | |
| | | 4-5 | < 20.2 | | < 0.00102 | | < 0.00508 | | < 0.00254 | | < 0.00660 | | - | | < 0.101 | | < 4.03 | | 2.52 | B J | | | | | | | | | | | | | | 2.52 | | |
| | | 6-7 | < 21.0 | | < 0.00110 | | < 0.00549 | | < 0.00275 | | < 0.00714 | | - | | < 0.105 | | < 4.20 | | 6.09 | B | | | | | | | | | | | | | | 6.09 | | |
| | | 9-10 | < 21.2 | | < 0.00112 | | < 0.00562 | | < 0.00281 | | < 0.00731 | | - | | < 0.106 | | < 4.25 | | 2.64 | B J | | | | | | | | | | | | | | 2.64 | | |

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics 1: Method 300.0

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics 2: Method 8260B

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics 3: Method 8015

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

B: Analyte was detected in the associated blank.

J: Thereported concentration is estimated and identification of the analyte is acceptable.



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENTS NPAC0535052112 & NPRS0534230461
MAVERICK PERMIAN, LLC
SEMU PERMIAN #31 INJECTION LINE RELEASEs
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Sample Depth feet bgs | Chloride ¹ mg/kg Q | | BTEX ² | | | | | | | | | | TPH ³ | | | | | | |
|---|-------------|--------------------------|----------------------------------|--|-------------------|---|---------|---|--------------|---|---------------|---|------------|---|---|---|--|---|--|---|--------------------------------|
| | | | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO C ₆ - C ₁₀ | | DRO > C ₁₀ - C ₂₈ | | EXT DRO > C ₂₈ - C ₃₆ | | Total TPH (GRO+DRO+EXT DRO) |
| | | | | | 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 |
| Reclamation Requirements (19.15.29 NMAC) | | | 600 | | 10 | | | | | | | | 50 | | | | | | 100 | | |
| SW-1 | 11/1/2023 | 0.0 - 4.0 | 144 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| SW-2 | 11/1/2023 | 0.0 - 4.0 | 32 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| SW-3 | 11/1/2023 | 0.0 - 4.0 | 32 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| SW-4 | 11/1/2023 | 0.0 - 4.0 | 224 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| BH-1 (4.0') | 11/1/2023 | 4.0 - 4.5 | 224 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| BH-2 (4.0') | 11/1/2023 | 4.0 - 4.5 | 32 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |
| BH-3 (4.0') | 11/1/2023 | 4.0 - 4.5 | 32 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | <30 |

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015M

ATTACHMENT 1: C-141 INFORMATION

OCD Permitting

Home Searches Incidents Incident Details

NPAC0535052112 SEMU PERMIAN #031 @ 30-025-07817

General Incident Information

Site Name: SEMU PERMIAN #031
Well: [\[30-025-07817\]](#) SEMU PERMIAN #031
Facility:
Operator: [\[331199\]](#) Maverick Permian LLC
Status: Remediation Closure Report Received, Pending OCD Review
Type: Produced Water Release
Severity: Major
Surface Owner: Federal
County: Lea (25)
District: Hobbs
Incident Location: C-19-20S-38E 660 FNL 1980 FWL
Lat/Long: 32.5640831,-103.1900253 NAD83
Directions:

Quick Links

- [General Incident Information](#)
- [Materials](#)
- [Events](#)
- [Orders](#)
- [Action Status](#)

Associated Images

- [Incident Files \(1\)](#)
- [Well Files \(47\)](#)

New Searches

- [New Facility Search](#)
- [New Incident Search](#)
- [New Operator Search](#)
- [New Pit Search](#)
- [New Still Search](#)
- [New Tank Search](#)
- [New Well Search](#)

Notes

Source of Referral: Industry Rep
Action / Escalation:
Resulted In Fire:
Resulted In Injury:
Endangered Public Health:
Will or Has Reached Watercourse:
Fresh Water Contamination:
Property Or Environmental Damage:

Contact Details

Contact Name:
Contact Title:

Event Dates

Date of Discovery: 11/29/2005
Initial C-141 Report Due: 12/14/2005
Remediation Closure Report Due: 06/23/2023

Incident Dates

| Type | Action | Received | Denied | Approved |
|--------------------------------------|--------------------------|------------|--------|------------|
| Remediation Closure Report | | 01/06/2021 | | |
| Remediation Closure Report Extension | | 08/15/2018 | | 08/15/2018 |
| Sampling Notice | [292132] | 12/07/2023 | | 12/07/2023 |
| Initial C-141 Report | | 11/29/2005 | | 11/29/2005 |
| Notification | | 11/29/2005 | | 11/29/2005 |

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

| Cause | Source | Material | Volume | | | | Units |
|---|----------------|----------------|--------------------------|----------|-----------|------|-------|
| | | | Unk. | Released | Recovered | Lost | |
| Corrosion | Pipeline (Any) | Produced Water | <input type="checkbox"/> | 82 | 60 | 22 | BBL |
| The concentration of dissolved chloride in the produced water >10,000 mg/l: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | |

| | |
|------------|--|
| 03/17/2023 | The (03/17/2023, C-141) application [14101] was rejected by OCD. The operator was emailed with details of this event. |
| 03/17/2023 | Closure denied. Depth to groundwater data inadequate. BH-1 exceeds closure criteria. Additional delineation required. A deferral can only be granted on an active well pad and not on a road, right-of-way, or in the pasture. A clarification document has been placed on the OCD website to clarify the matter. Submit a report by 6/23/2023. |
| 03/17/2023 | An application [14101] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event. |
| 01/06/2021 | The (03/17/2023, C-141) application [14101] was assigned to this incident. |
| 12/16/2005 | C-141: A buried 2" steel injection line leaked possibly due to corrosion, cause cannot be determined until such time as the line can be dug out and inspected/repared. The line is temporarily shut in waiting for the New Mexico One Call to clear and new pipe arrives for repairs. The affected area included a 12'x483' section of caliche road and a 39'x27' area of pasture. A vacuum truck was used to pick up the free liquids (60 bbls of produced water was recovered). The site will be delineated to determine what further clean up will be needed. |

Incident Severity

| | |
|--|--|
| Major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
|--|--|

Incident Corrective Actions

- No initial response data was found for this incident.
- No site characterization data was found for this incident.
- No remediation plan data was found for this incident.
- No active remediation deferral request was found for this incident.
- No remediation closure report data was found for this incident.
- No reclamation report data was found for this incident.
- No re-vegetation report data was found for this incident.

Orders

No Orders Found

ATTACHMENT 2: SITE CHARACTERIZATION DATA



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 |
|---------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| L 04412 S | L | LE | | 4 | 4 | 2 | 13 | 20S | 37E | 669189 | 3605491* | 1326 | 155 | 84 | 71 |

Average Depth to Water: **84 feet**

Minimum Depth: **84 feet**

Maximum Depth: **84 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 669909.331

Northing (Y): 3604376.767

Radius: 1600

*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.



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 Code | Sub-basin | County | Q | Q | Q | Sec | Tws | Rng | X | Y | Distance | Well Depth | Water Column | |
|---------------------------|----------|-----------|--------|----|---|---|-----|-----|-----|-----|--------|----------|------------|--------------|----|
| L_04412 S | L | LE | 64 | 16 | 4 | 4 | 2 | 13 | 20S | 37E | 669189 | 3605491* | 1329 | 155 | 84 |

Average Depth to Water: **84 feet**

Minimum Depth: **84 feet**

Maximum Depth: **84 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 669805.582

Northing (Y): 3604312.847

Radius: 1600

*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.

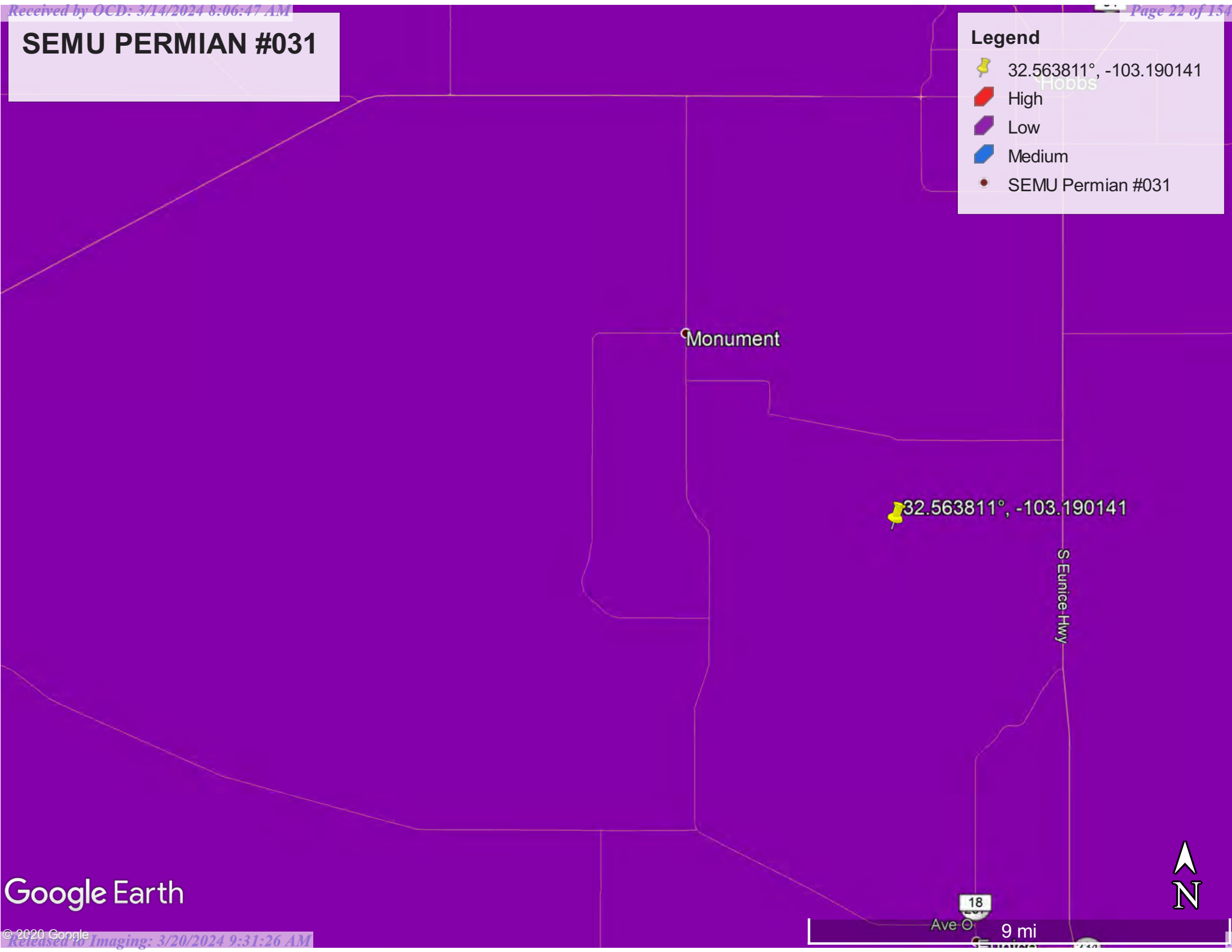
9/14/20 4:46 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

SEMU PERMIAN #031

Legend

-  32.563811°, -103.190141
-  High
-  Low
-  Medium
-  SEMU Permian #031

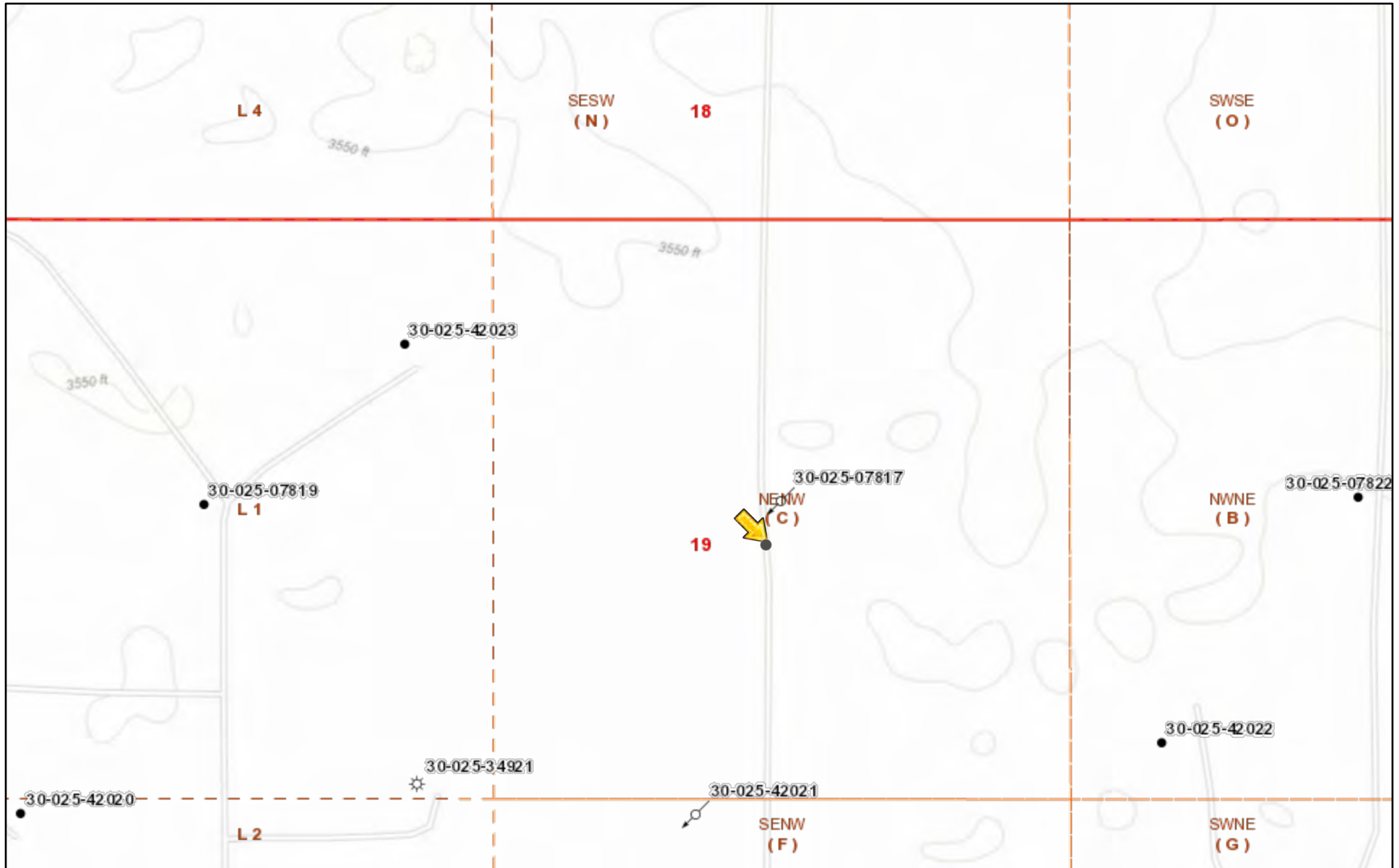


Google Earth















18 Ave O 9 mi

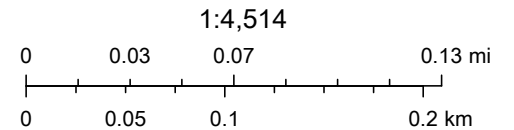


SEMU Permian #031



12/22/2020, 11:30:22 PM

-  Override 1
-  Miscellaneous
-  CO2, New
-  Gas, Active
-  Gas, Plugged
-  CO2, Active
-  CO2, Plugged
-  Gas, Cancelled
-  Gas, Temporarily Abandoned
-  undefined
-  CO2, Cancelled
-  CO2, Temporarily Abandoned
-  Gas, New
-  Injection, Active



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

New Mexico Oil Conservation Division

ATTACHMENT 3: BORING LOGS

| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-1 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|
















Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.563899°, -103.190154° Surface Elevation: 3546 ft

Borehole Number: BH-1 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | DEPTH (ft) | REMARKS |
|------------|----------------|--------|--------------------------------|-----|---------------------------|---------------------|----------------------|-------------------|----------------|-----------------------------|------------------|-------------------|--|---|---------------|------------|---------|
| | | | ExStik | PID | | | | | While Drilling | Upon Completion of Drilling | | | | | | | |
| | | | | | | | | | | | | | | While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | | |
| | | | | | | | | | | | | | | MATERIAL DESCRIPTION | | | |
| 5 | | | 0.0 | 118 | | | | | | | | | -ML- SANDY SILT; Brown, loose, dry, with faint hydrocarbon odor, with no staining. | 1.5 | BH-1 (0'-1') | | |
| | | | 0.0 | 46 | | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, with no odor, with no staining. | 4 | BH-1 (2'-3') | | |
| | | | 0.0 | 200 | | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, moderately cemented, with no odor, with no staining. -- with some caliche layers @ 4'-5'. | | BH-1 (4'-5') | | |
| | | | 0.0 | 100 | | | | | | | | | -- poorly cemented @ 6'-7'. | 8 | BH-1 (6'-7') | | |
| 10 | | | 0.0 | 100 | | | | | | | | | -SM- SILTY SAND; Light tan, dense, dry, fine-grained, well cemented, with no odor, with no staining. -- grading to mudstone @ 9'-10'. | 10 | BH-1 (9'-10') | | |

Bottom of borehole at 10.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling

| | | | |
|---------------|-------------------|---------------------------|----------------|
| 212C-MD-02103 | TETRA TECH | LOG OF BORING BH-2 | Page 1 of 1 |
|---------------|-------------------|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.553364°, -103.190185° **Surface Elevation:** 3536 ft

Borehole Number: BH-2 **Borehole Diameter (in.):** 5 **Date Started:** 8/27/2020 **Date Finished:** 8/27/2020

| 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 | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|--|-----------------------------|----------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks: | | |
| 5 | | | | | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, with no odor, with no staining. | 5.5 | BH-2 (0'-1') |
| | | | | | | | | | | | | | | BH-2 (2'-3') |
| | | | | | | | | | | | | | | BH-2 (4'-5') |
| 10 | | | 0.0 | 830 | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, moderately cemented, with no odor, with no staining. -- with some siltstone @ 6'-7' | | BH-2 (6'-7') |
| | | | | | | | | | | | | | | BH-2 (9'-10') |
| 15 | | | 0.0 | 720 | | | | | | | | -SM- SILTY SAND; Tan, dense, dry, fine-grained, well cemented, with no odor, with no staining. | 12 | BH-2 (14'-15') |
| | | | | | | | | | | | | | | BH-2 (19'-20') |
| 20 | | | 0.0 | 1450 | | | | | | | | | | BH-2 (24'-25') |
| 25 | | | 0.0 | 1060 | | | | | | | | | | BH-2 (24'-25') |

| | | | |
|--|---|---|--|
| 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 |
|--|---|---|--|

Logger: John Thurston **Drilling Equipment:** Air Rotary **Driller:** Scarborough Drilling

SEMU PERMIAN #031 INJECTION LINE RELEASE GP 1 8-21-20 TT_AUSTIN_GEOTECH_NOWELL3 2015 TT TEMPLATE DECEMBER WELL.GDT

| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-3 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|
















Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.562689°, -103.190163° Surface Elevation: 3545 ft

Borehole Number: BH-3 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|---|-----------------------------|---------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | |
| | | | | | | | | | | | | MATERIAL DESCRIPTION | | |
| 5 | | | 0.0 | 120 | | | | | | | | -ML- SANDY SILT; Tan, loose, dry, with caliche, with no odor, with no staining. | 1.5 | BH-3 (0'-1') |
| | | | 0.0 | 230 | | | | | | | | -ML- SANDY SILT; Tan, loose, dry, fine-grained, with some caliche, with no odor, with no staining. | 3.5 | BH-3 (2'-3') |
| | | | 0.0 | 93 | | | | | | | | -SM- SILTY SAND; Tan, fine-grained, loose, slightly moist, with no odor, with no staining. | 5.5 | BH-3 (4'-5') |
| | | | 0.0 | 214 | | | | | | | | -SM- SILTY SAND: Tan, fine-grained, well cemented, with occasional friable siltstone, with no odor, with no staining. | | BH-3 (6'-7') |
| 10 | | | 0.0 | 163 | | | | | | | | | 10 | BH-3 (9'-10') |

Bottom of borehole at 10.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling

| | | | |
|---------------|-------------------|---------------------------|----------------|
| 212C-MD-02103 | TETRA TECH | LOG OF BORING BH-4 | Page 1 of 1 |
|---------------|-------------------|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.562415°, -103.190150° Surface Elevation: 3545 ft

Borehole Number: BH-4 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|---|-----------------------------|--------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | |
| | | | | | | | | | | | | MATERIAL DESCRIPTION | | |
| 5 | | | 0.0 | 140 | | | | | | | | | | BH-4 (0'-1') |
| | | | 0.0 | 170 | | | | | | | | | 4 | BH-4 (2'-3') |
| | | | 0.0 | 370 | | | | | | | | | 9 | BH-4 (4'-5') |
| | | | 0.0 | 147 | | | | | | | | | 9 | BH-4 (6'-7') |
| 10 | | | 0.0 | 247 | | | | | | | | 10 | BH-4 (9'-10') | |

Bottom of borehole at 10.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling

| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-5 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.564104°, -103.189891° Surface Elevation: 3546 ft

Borehole Number: BH-5 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020
















| 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 | | DEPTH (ft) | REMARKS |
|------------|----------------|--------|--------------------------------|-----|---------------------------|---------------------|----------------------|-------------------|----------------|-----------------------------|------------------|-------------------|-------------|---|--|------------|---------------|
| | | | ExStik | PID | | | | | While Drilling | Upon Completion of Drilling | | | | | | | |
| | | | | | | | | | | | | | | While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks: | | | |
| | | | | | | | | | | | | | | MATERIAL DESCRIPTION | | | |
| 5 | | | 0.0 | 38 | | | | | | | | | | | | 1.5 | BH-5 (0'-1') |
| | | | 0.0 | 30 | | | | | | | | | | | | | BH-5 (2'-3') |
| | | | 0.0 | 78 | | | | | | | | | | | | | BH-5 (4'-5') |
| | | | 0.0 | 305 | | | | | | | | | | | | | BH-5 (6'-7') |
| 10 | | | 0.0 | 114 | | | | | | | | | | | | 10 | BH-5 (9'-10') |

-ML- SANDY SILT; Brown, loose, dry, with no odor, with no staining.

-SM- SILTY SAND; Light tan, loose, dry, fine-grained, with no odor, with no staining.
 -- with some caliche layers @ 2'-3'.

-- becoming moderately cemented @ 6'-10'.

Bottom of borehole at 10.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|





Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling
















| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-6 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.563592°, -103.190157° Surface Elevation: 3547 ft

Borehole Number: BH-6 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|---------------------------------|----------------|---|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|---|---|-----------------------------|--------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | ExStik | PID | | | | | | | | WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks: | | |
| | |  | 0.0 | 21 | | | | | | |  | | | BH-1 (0'-1') |
| | |  | 0.0 | 26 | | | | | | |  | | | BH-1 (2'-3') |
| Bottom of borehole at 3.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Hand Auger Driller: Scarborough Drilling

| | | | |
|---------------|-------------------|---------------------------|----------------|
| 212C-MD-02103 | TETRA TECH | LOG OF BORING BH-7 | Page 1 of 1 |
|---------------|-------------------|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.563011°, -103.190167° Surface Elevation: 3545 ft

Borehole Number: BH-7 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|---|-----------------------------|--------------|--------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) | REMARKS |
| | | | ExStik | PID | | | | | | | | WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks: | | | |
| 5 | | | 0.0 | 15 | | | | | | | [Symbol] | -SM- SILTY SAND; Light red, loose, dry, fine-grained, with no odor, with no staining. | 5 | BH-7 (0'-1') | |
| | | | 0.0 | 20 | | | | | | | | | | 5 | BH-7 (2'-3') |
| | | | 0.0 | 10 | | | | | | | | -- with some caliche layers and becoming moderately cemented @ 4'-5'. Bottom of borehole at 5.0 feet. | 5 | BH-7 (4'-5') | |
| | | | | | | | | | | | | | | 5 | BH-7 (6'-7') |

| | | |
|---|---|--|
| 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|---|---|--|





Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling
















| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-8 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.562725°, -103.190150° Surface Elevation: 3545 ft

Borehole Number: BH-8 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|---------------------------------|----------------|---|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|---|---|-----------------------------|--------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | WATER LEVEL OBSERVATIONS While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | |
| | | | ExStik | PID | | | | LL | PI | | | MATERIAL DESCRIPTION | | |
| 5 | |  | 0.0 | 19 | | | | | | |  | -SM- SILTY SAND; Red, loose, dry, fine-grained, with no odor, with no staining. | 5 | BH-8 (0'-1') |
| | |  | 0.0 | 21 | | | | | | | | | | BH-8 (2'-3') |
| | |  | 0.0 | 20 | | | | | | | | | | BH-8 (4'-5') |
| Bottom of borehole at 5.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Hand Auger Driller: Scarborough Drilling

| | | | |
|---------------|--|---------------------------|----------------|
| 212C-MD-02103 |  TETRA TECH | LOG OF BORING BH-9 | Page 1 of 1 |
|---------------|--|---------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.562561°, -103.190159° Surface Elevation: 3545 ft

Borehole Number: BH-9 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|---|-----------------------------|---------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | |
| | | | | | | | | | | | | MATERIAL DESCRIPTION | | |
| 5 | | | 0.0 | 68 | | | | | | | | -SM- SILTY SAND; Light red, fine-grained, loose, dry, with no odor, with no staining. | 3.5 | BH-9 (0'-1') |
| | | | 0.0 | 21 | | | | | | | | -- with some caliche layers @ 2'-3'. | | BH-9 (2'-3') |
| | | | 0.0 | | | | | | | | | -SM- SILTY SAND; Tan, fine-grained, loose, dry, with no odor, with no staining. | | BH-9 (4'-5') |
| | | | 0.0 | | | | | | | | | -- with mudstone and some caliche layers @ 4'-5'. -- moderately cemented @ 4'-7'. | | BH-9 (6'-7') |
| 10 | | | 0.0 | 89.2 | | | | | | | | -- well cemented @ 9'-10'. | 10 | BH-9 (9'-10') |

Bottom of borehole at 10.0 feet.

| | | | | |
|--|---|---|--|--|
| Sampler Types: <input checked="" type="checkbox"/> Split Spoon <input checked="" type="checkbox"/> Shelby <input checked="" type="checkbox"/> Bulk Sample <input checked="" type="checkbox"/> Grab Sample | <input checked="" type="checkbox"/> Acetate Liner <input checked="" type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> California <input checked="" type="checkbox"/> Test Pit | Operation Types: <input checked="" type="checkbox"/> Mud Rotary <input checked="" type="checkbox"/> Continuous Flight Auger <input checked="" type="checkbox"/> Wash Rotary | <input checked="" type="checkbox"/> Hand Auger <input checked="" type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Core Barrel | Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling

| | | | |
|---------------|-------------------|----------------------------|----------------|
| 212C-MD-02103 | TETRA TECH | LOG OF BORING BH-10 | Page 1 of 1 |
|---------------|-------------------|----------------------------|----------------|

Project Name: SEMU Permian #031 Injection Line Release

Borehole Location: GPS: 32.564037°, -103.190317° Surface Elevation: 3545 ft

Borehole Number: BH-10 Borehole Diameter (in.): 5 Date Started: 8/27/2020 Date Finished: 8/27/2020

| 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 | | |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|-------------|---|-----------------------------|---------------|
| | | | | | | | | | | | | While Drilling | Upon Completion of Drilling | DEPTH (ft) |
| | | | | | | | | | | | | WATER LEVEL OBSERVATIONS While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks: | | |
| | | | | | | | | | | | | MATERIAL DESCRIPTION | | |
| 5 | | | 0.0 | 44 | | | | | | | | -ML- SANDY SILT; Brown, loose, dry, with no odor, with no staining. | 1.5 | BH-9 (0'-1') |
| | | | 0.0 | 24 | | | | | | | | -SM- SILTY SAND; Light tan, fine-grained, loose, dry, with no odor, with no staining. -- with occasional caliche layers @ 2'-3'. | 5.5 | BH-9 (2'-3') |
| | | | 0.0 | 96 | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, moderately cemented, with no odor, with no staining. | 5.5 | BH-9 (4'-5') |
| | | | 0.0 | | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, moderately cemented, with no odor, with no staining. | 5.5 | BH-9 (6'-7') |
| 10 | | | 0.0 | 88 | | | | | | | | -SM- SILTY SAND; Light tan, loose, dry, fine-grained, moderately cemented, with no odor, with no staining. | 10 | BH-9 (9'-10') |

Bottom of borehole at 10.0 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: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. |
|--|---|---|--|--|

Logger: John Thurston Drilling Equipment: Air Rotary Driller: Scarborough Drilling



BORING LOG: DTW-01 (L-15651 POD1)

| | | |
|--|--|---|
| PROJECT NUMBER: 212C-MD-03271 | DRILLING COMPANY: West Texas Water Well | LATITUDE: 32.560316° |
| PROJECT NAME: SEMU Permian Remediations | DRILL RIG: Air Rotary Rig | LONGITUDE: -103.190072° |
| CLIENT: Maverick Permian, LLC | DRILLING METHOD: Air Rotary | SURFACE ELEVATION: 3,547 feet AMSL |
| ADDRESS: 1410 NW County Road Hobbs, NM 88240 | BORING TYPE: Depth-to-Water | LOGGED BY: Adrian Garcia |
| | TOTAL DEPTH: 55 feet | CHECKED BY: Charles Terhune |
| | DIAMETER: 8 inches | |

COMMENTS: AMSL: Above Mean Sea Level

| Depth (Feet) | Drilling Method | Boring Completion | Graphic Log | Material Description | |
|--------------|-----------------|-------------------|-------------|---|---|
| | AR | | | CALICHE, white, dry, poorly sorted, angular, homogeneous. | |
| 5 | | | | SAND, light brown, dry, fine to medium grained, poorly sorted, loose, sub-angular to sub-rounded, homogeneous. | |
| 10 | | | | | |
| 15 | | | | | CALICHE, white/pink, moist, medium dense. |
| 20 | | | | | SAND, light brown, moist, loose, fine to medium grained, sub-angular to sub-rounded, poorly sorted. |
| 25 | | | | | CALICHE/SAND, tan, loose, moist. |
| 30 | | | | | |
| 35 | | | | | SAND, brown, moist, loose, fine to medium grained, sub-angular to sub-rounded, poorly sorted. |
| 40 | | | | SAND/CALICHE, tan and white, moist, medium dense, poorly sorted. | |
| 45 | | | | | |
| 50 | | | | | |
| 55 | | | | End of Hole at 55 feet below ground surface. No groundwater encountered, Hole plugged with hydrated 3/8" bentonite chips. | |

Disclaimer This bore log is intended for environmental not geotechnical purposes.

ATTACHMENT 4: LABORATORY ANALYTICAL DATA



ANALYTICAL REPORT

September 11, 2020

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

ConocoPhillips - Tetra Tech

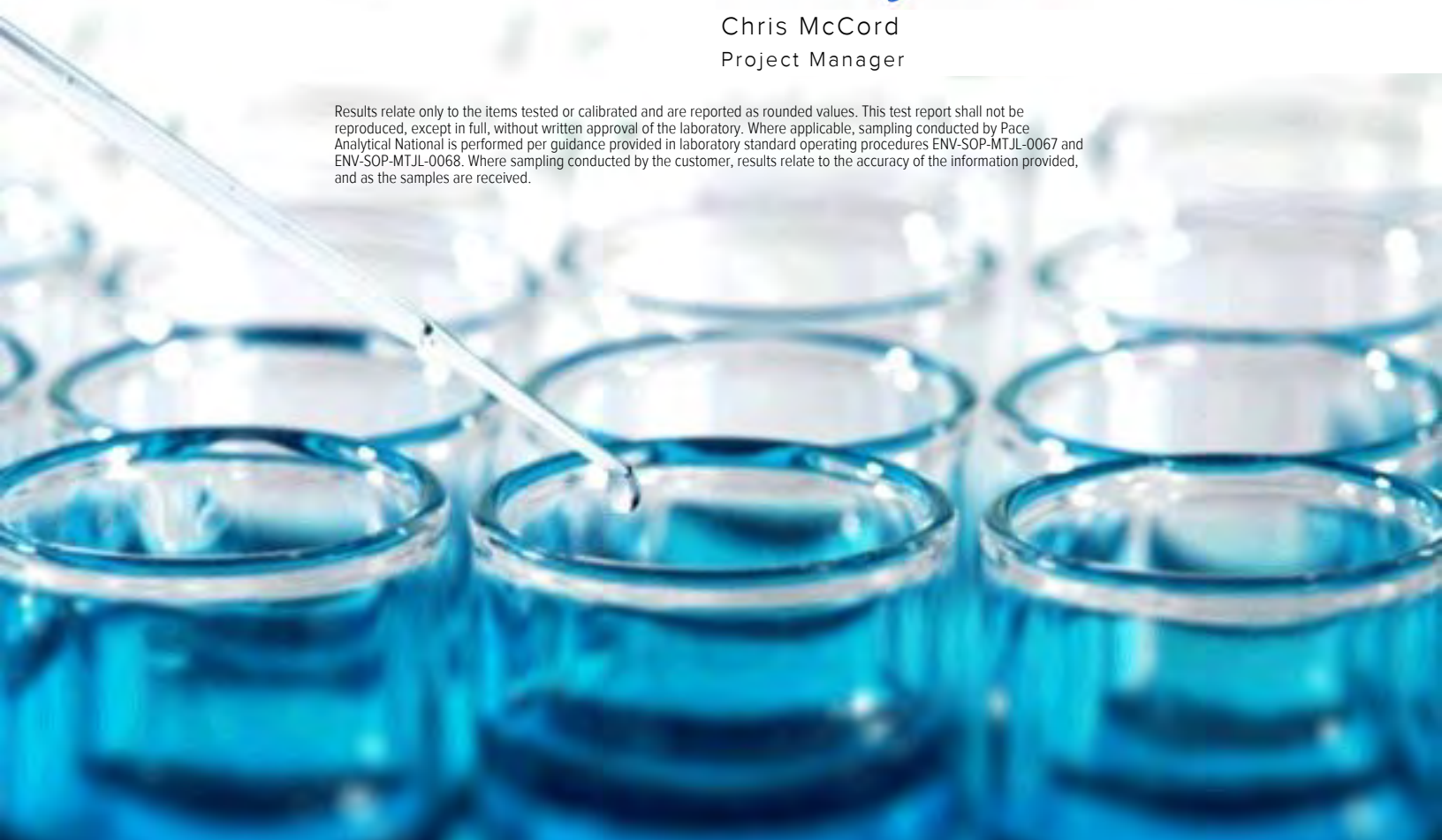
Sample Delivery Group: L1256203
 Samples Received: 08/29/2020
 Project Number: 212C-MD-02103
 Description: SEMU Permian #31

Report To: Christian Lull
 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 4

Cn: Case Narrative 14

Sr: Sample Results 15

BH-2 (24-25') L1256203-01 15

BH-3 (0-1') L1256203-02 16

BH-3 (2-3') L1256203-03 17

BH-3 (4-5') L1256203-04 18

BH-3 (6-7') L1256203-05 19

BH-3 (9-10') L1256203-06 20

BH-4 (0-1') L1256203-07 21

BH-4 (2-3') L1256203-08 22

BH-4 (4-5') L1256203-09 23

BH-4 (6-7') L1256203-10 24

BH-4 (9-10') L1256203-11 25

BH-7 (0-1') L1256203-12 26

BH-7 (2-3') L1256203-13 27

BH-7 (4-5') L1256203-14 28

BH-8 (0-1') L1256203-15 29

BH-8 (2-3') L1256203-16 30

BH-8 (4-5') L1256203-17 31

BH-9 (0-1') L1256203-18 32

BH-9 (2-3') L1256203-19 33

BH-9 (4-5') L1256203-20 34

BH-9 (6-7') L1256203-21 35

BH-9 (9-10') L1256203-22 36

BH-1 (0-1') L1256203-23 37

BH-1 (2-3') L1256203-24 38

BH-1 (4-5') L1256203-25 39

BH-1 (6-7') L1256203-26 40

BH-1 (9-10') L1256203-27 41

BH-2 (0-1') L1256203-28 42

BH-2 (2-3') L1256203-29 43

BH-2 (4-5') L1256203-30 44

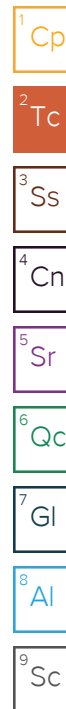
BH-2 (6-7') L1256203-31 45

BH-2 (9-10') L1256203-32 46

BH-2 (14-15') L1256203-33 47

BH-2 (19-20') L1256203-34 48

BH-5 (0-1') L1256203-35 49



| | | |
|---|-----------|-----------------|
| BH-5 (2-3') L1256203-36 | 50 | ¹ Cp |
| BH-5 (4-5') L1256203-37 | 51 | |
| BH-5 (6-7') L1256203-38 | 52 | ² Tc |
| BH-5 (9-10') L1256203-39 | 53 | |
| BH-6 (0-1') L1256203-40 | 54 | ³ Ss |
| BH-6 (2-3') L1256203-41 | 55 | |
| BH-10 (0-1') L1256203-42 | 56 | ⁴ Cn |
| BH-10 (2-3') L1256203-43 | 57 | ⁵ Sr |
| BH-10 (4-5') L1256203-44 | 58 | |
| BH-10 (6-7') L1256203-45 | 59 | ⁶ Qc |
| BH-10 (9-10') L1256203-46 | 60 | |
| Qc: Quality Control Summary | 61 | ⁷ Gl |
| Total Solids by Method 2540 G-2011 | 61 | |
| Wet Chemistry by Method 300.0 | 66 | ⁸ Al |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 69 | |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 73 | |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | 77 | ⁹ Sc |
| Gl: Glossary of Terms | 81 | |
| Al: Accreditations & Locations | 82 | |
| Sc: Sample Chain of Custody | 83 | |

BH-2 (24-25') L1256203-01 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 00:07 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1 | 09/01/20 20:36 | 09/02/20 11:19 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 12:58 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 13:42 | TJD | Mt. Juliet, TN |

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

BH-3 (0-1') L1256203-02 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 00:43 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1 | 09/01/20 20:36 | 09/02/20 11:40 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 13:17 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/10/20 05:32 | JN | Mt. Juliet, TN |

BH-3 (2-3') L1256203-03 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 01:01 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1.01 | 09/01/20 20:36 | 09/02/20 12:00 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 13:36 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/10/20 06:10 | JN | Mt. Juliet, TN |

BH-3 (4-5') L1256203-04 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 01:20 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1 | 09/01/20 20:36 | 09/02/20 12:21 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 13:55 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 17:06 | TJD | Mt. Juliet, TN |

BH-3 (6-7') L1256203-05 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 01:38 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1 | 09/01/20 20:36 | 09/02/20 12:42 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 14:14 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 17:19 | TJD | Mt. Juliet, TN |

BH-3 (9-10') L1256203-06 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 01:57 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536524 | 1 | 09/01/20 20:36 | 09/02/20 13:03 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 14:33 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 15:24 | TJD | Mt. Juliet, TN |

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

BH-4 (0-1') L1256203-07 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 03:29 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1.01 | 09/01/20 20:36 | 09/02/20 18:21 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 14:52 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 15:37 | TJD | Mt. Juliet, TN |

BH-4 (2-3') L1256203-08 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 03:47 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 18:42 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536658 | 1 | 09/01/20 20:36 | 09/02/20 15:11 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/10/20 05:45 | JN | Mt. Juliet, TN |

BH-4 (4-5') L1256203-09 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 04:05 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 19:03 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 09:27 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 16:54 | TJD | Mt. Juliet, TN |

BH-4 (6-7') L1256203-10 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538140 | 1 | 09/05/20 21:55 | 09/05/20 22:55 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 04:24 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1.01 | 09/01/20 20:36 | 09/02/20 19:23 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 09:46 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 15:50 | TJD | Mt. Juliet, TN |

BH-4 (9-10') L1256203-11 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538141 | 1 | 09/06/20 23:43 | 09/06/20 23:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 04:42 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 19:44 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 10:05 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/09/20 16:02 | TJD | Mt. Juliet, TN |

1 Cp
 2 Tc
 3 Ss
 4 Cn

BH-7 (0-1') L1256203-12 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538141 | 1 | 09/06/20 23:43 | 09/06/20 23:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 05:01 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 20:05 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 10:24 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539273 | 1 | 09/09/20 06:42 | 09/10/20 05:58 | JN | Mt. Juliet, TN |

5 Sr
 6 Qc
 7 Gl
 8 Al

BH-7 (2-3') L1256203-13 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538141 | 1 | 09/06/20 23:43 | 09/06/20 23:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 05:19 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 20:26 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 10:43 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 18:12 | TJD | Mt. Juliet, TN |

9 Sc

BH-7 (4-5') L1256203-14 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538141 | 1 | 09/06/20 23:43 | 09/06/20 23:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 05:38 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536763 | 1 | 09/01/20 20:36 | 09/02/20 20:46 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 11:02 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 18:25 | TJD | Mt. Juliet, TN |

BH-8 (0-1') L1256203-15 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538141 | 1 | 09/06/20 23:43 | 09/06/20 23:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535206 | 1 | 08/31/20 21:30 | 09/01/20 05:56 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 20:36 | 09/02/20 12:16 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 20:36 | 09/02/20 11:20 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 20:32 | TJD | Mt. Juliet, TN |

BH-8 (2-3') L1256203-16 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

Vertical sidebar with 9 numbered boxes containing chemical symbols: 1 Cp, 2 Tc, 3 Ss, 4 Cn, 5 Sr, 6 Qc, 7 Gl, 8 Al, 9 Sc.

BH-8 (4-5') L1256203-17 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-9 (0-1') L1256203-18 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-9 (2-3') L1256203-19 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-9 (4-5') L1256203-20 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-9 (6-7') L1256203-21 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 03:04 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 15:14 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 13:14 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 19:16 | TJD | Mt. Juliet, TN |



BH-9 (9-10') L1256203-22 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 03:28 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 15:37 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 13:32 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 19:29 | TJD | Mt. Juliet, TN |

BH-1 (0-1') L1256203-23 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 03:40 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 15:59 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 13:51 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 10 | 09/08/20 10:24 | 09/09/20 04:34 | JN | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 50 | 09/08/20 10:24 | 09/09/20 11:48 | JN | Mt. Juliet, TN |

BH-1 (2-3') L1256203-24 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 03:52 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 16:22 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 14:10 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1540114 | 1 | 09/10/20 21:06 | 09/11/20 03:02 | TJD | Mt. Juliet, TN |

BH-1 (4-5') L1256203-25 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 5 | 08/31/20 19:05 | 09/01/20 04:03 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 16:44 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 14:29 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 20:58 | TJD | Mt. Juliet, TN |

BH-1 (6-7') L1256203-26 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 04:15 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 17:06 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 14:47 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/09/20 04:08 | JN | Mt. Juliet, TN |

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

BH-1 (9-10') L1256203-27 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 04:27 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 17:28 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 15:06 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 20:20 | TJD | Mt. Juliet, TN |

BH-2 (0-1') L1256203-28 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 05:28 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 18:17 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536695 | 1 | 09/01/20 21:11 | 09/02/20 15:25 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 10 | 09/08/20 10:24 | 09/08/20 22:40 | TJD | Mt. Juliet, TN |

BH-2 (2-3') L1256203-29 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 05:41 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 18:39 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 11:39 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 19:54 | TJD | Mt. Juliet, TN |

BH-2 (4-5') L1256203-30 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538143 | 1 | 09/06/20 21:43 | 09/06/20 22:54 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 05:53 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 19:01 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 11:58 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/09/20 04:21 | JN | Mt. Juliet, TN |

BH-2 (6-7') L1256203-31 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 06:05 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 19:23 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 12:17 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 20:07 | TJD | Mt. Juliet, TN |

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

BH-2 (9-10') L1256203-32 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 06:16 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536768 | 1 | 09/01/20 21:11 | 09/02/20 19:45 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 12:36 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539274 | 1 | 09/08/20 10:24 | 09/08/20 19:41 | TJD | Mt. Juliet, TN |

BH-2 (14-15') L1256203-33 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 06:28 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 19:29 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 12:55 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 04:59 | JN | Mt. Juliet, TN |

BH-2 (19-20') L1256203-34 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 5 | 08/31/20 19:05 | 09/01/20 06:41 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 19:52 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 13:15 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 05:12 | JN | Mt. Juliet, TN |

BH-5 (0-1') L1256203-35 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 06:53 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 20:15 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 13:34 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 05:24 | JN | Mt. Juliet, TN |

BH-5 (2-3') L1256203-36 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 07:29 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 20:38 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 13:53 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 05:37 | JN | Mt. Juliet, TN |

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

BH-5 (4-5') L1256203-37 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 07:41 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 21:01 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 14:13 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 05:50 | JN | Mt. Juliet, TN |

BH-5 (6-7') L1256203-38 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 07:52 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 21:24 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 14:32 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 06:02 | JN | Mt. Juliet, TN |

BH-5 (9-10') L1256203-39 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 08:04 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 22:52 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 14:51 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 06:15 | JN | Mt. Juliet, TN |

BH-6 (0-1') L1256203-40 Solid

Collected by John Thurston
 Collected date/time 08/27/20 00:00
 Received date/time 08/29/20 10:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538144 | 1 | 09/06/20 21:11 | 09/06/20 21:35 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535327 | 1 | 08/31/20 19:05 | 09/01/20 08:26 | LBR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/02/20 23:15 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1536720 | 1 | 09/01/20 21:11 | 09/02/20 15:10 | BMB | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 10:57 | JN | Mt. Juliet, TN |

BH-6 (2-3') L1256203-41 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

Vertical sidebar with 9 colored boxes containing chemical symbols: 1 Cp, 2 Tc, 3 Ss, 4 Cn, 5 Sr, 6 Qc, 7 Gl, 8 Al, 9 Sc.

BH-10 (0-1') L1256203-42 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-10 (2-3') L1256203-43 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-10 (4-5') L1256203-44 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

BH-10 (6-7') L1256203-45 Solid

Collected by John Thurston
Collected date/time 08/27/20 00:00
Received date/time 08/29/20 10:00

Table with 7 columns: Method, Batch, Dilution, Preparation date/time, Analysis date/time, Analyst, Location. Rows include Total Solids by Method 2540 G-2011, Wet Chemistry by Method 300.0, Volatile Organic Compounds (GC) by Method 8015D/GRO, Volatile Organic Compounds (GC/MS) by Method 8260B, and Semi-Volatile Organic Compounds (GC) by Method 8015.

SAMPLE SUMMARY

BH-10 (9-10') L1256203-46 Solid

| | | |
|---------------|---------------------|--------------------|
| Collected by | Collected date/time | Received date/time |
| John Thurston | 08/27/20 00:00 | 08/29/20 10:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011 | WG1538145 | 1 | 09/06/20 20:24 | 09/06/20 21:07 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1535329 | 1 | 08/31/20 14:03 | 09/01/20 03:28 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1536987 | 1 | 09/01/20 21:11 | 09/03/20 01:33 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1537203 | 1 | 09/01/20 21:11 | 09/03/20 06:33 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1539276 | 1 | 09/08/20 22:55 | 09/09/20 07:44 | JN | Mt. Juliet, TN |

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

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

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.1 | | 1 | 09/05/2020 22:55 | WG1538140 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 929 | | 9.48 | 20.6 | 1 | 09/01/2020 00:07 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 0.0259 | J | 0.0224 | 0.103 | 1 | 09/02/2020 11:19 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 87.5 | | | 77.0-120 | | 09/02/2020 11:19 | WG1536524 |

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 | | 0.000495 | 0.00106 | 1 | 09/02/2020 12:58 | WG1536658 |
| Toluene | U | | 0.00138 | 0.00530 | 1 | 09/02/2020 12:58 | WG1536658 |
| Ethylbenzene | U | | 0.000781 | 0.00265 | 1 | 09/02/2020 12:58 | WG1536658 |
| Total Xylenes | U | | 0.000933 | 0.00689 | 1 | 09/02/2020 12:58 | WG1536658 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 12:58 | WG1536658 |
| (S) 4-Bromofluorobenzene | 96.8 | | | 67.0-138 | | 09/02/2020 12:58 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 94.4 | | | 70.0-130 | | 09/02/2020 12:58 | WG1536658 |

- 8 Al
- 9 Sc

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 | 4.12 | 1 | 09/09/2020 13:42 | WG1539273 |
| C28-C40 Oil Range | 1.09 | B J | 0.282 | 4.12 | 1 | 09/09/2020 13:42 | WG1539273 |
| (S) o-Terphenyl | 88.6 | | | 18.0-148 | | 09/09/2020 13:42 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.7 | | 1 | 09/05/2020 22:55 | WG1538140 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 73.9 | | 9.42 | 20.5 | 1 | 09/01/2020 00:43 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 0.0293 | J | 0.0222 | 0.102 | 1 | 09/02/2020 11:40 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 86.7 | | | 77.0-120 | | 09/02/2020 11:40 | WG1536524 |

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 | 09/02/2020 13:17 | WG1536658 |
| Toluene | U | | 0.00136 | 0.00524 | 1 | 09/02/2020 13:17 | WG1536658 |
| Ethylbenzene | U | | 0.000772 | 0.00262 | 1 | 09/02/2020 13:17 | WG1536658 |
| Total Xylenes | U | | 0.000922 | 0.00681 | 1 | 09/02/2020 13:17 | WG1536658 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 13:17 | WG1536658 |
| (S) 4-Bromofluorobenzene | 93.5 | | | 67.0-138 | | 09/02/2020 13:17 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 92.9 | | | 70.0-130 | | 09/02/2020 13:17 | WG1536658 |

- 8 Al
- 9 Sc

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 | 5.74 | | 1.65 | 4.10 | 1 | 09/10/2020 05:32 | WG1539273 |
| C28-C40 Oil Range | 27.8 | | 0.281 | 4.10 | 1 | 09/10/2020 05:32 | WG1539273 |
| (S) o-Terphenyl | 69.5 | | | 18.0-148 | | 09/10/2020 05:32 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 98.0 | | 1 | 09/05/2020 22:55 | WG1538140 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 33.1 | | 9.39 | 20.4 | 1 | 09/01/2020 01:01 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 0.0295 | J | 0.0223 | 0.103 | 1.01 | 09/02/2020 12:00 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 87.9 | | | 77.0-120 | | 09/02/2020 12:00 | WG1536524 |

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 | 09/02/2020 13:36 | WG1536658 |
| Toluene | U | | 0.00135 | 0.00520 | 1 | 09/02/2020 13:36 | WG1536658 |
| Ethylbenzene | U | | 0.000767 | 0.00260 | 1 | 09/02/2020 13:36 | WG1536658 |
| Total Xylenes | U | | 0.000916 | 0.00677 | 1 | 09/02/2020 13:36 | WG1536658 |
| (S) Toluene-d8 | 108 | | | 75.0-131 | | 09/02/2020 13:36 | WG1536658 |
| (S) 4-Bromofluorobenzene | 93.9 | | | 67.0-138 | | 09/02/2020 13:36 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 90.8 | | | 70.0-130 | | 09/02/2020 13:36 | WG1536658 |

- 8 Al
- 9 Sc

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 | 17.2 | | 1.64 | 4.08 | 1 | 09/10/2020 06:10 | WG1539273 |
| C28-C40 Oil Range | 61.6 | | 0.280 | 4.08 | 1 | 09/10/2020 06:10 | WG1539273 |
| (S) o-Terphenyl | 63.6 | | | 18.0-148 | | 09/10/2020 06:10 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 98.2 | | 1 | 09/05/2020 22:55 | WG1538140 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 31.1 | | 9.37 | 20.4 | 1 | 09/01/2020 01:20 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0225 | J | 0.0221 | 0.102 | 1 | 09/02/2020 12:21 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 87.4 | | | 77.0-120 | | 09/02/2020 12:21 | WG1536524 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000485 | 0.00104 | 1 | 09/02/2020 13:55 | WG1536658 |
| Toluene | U | | 0.00135 | 0.00519 | 1 | 09/02/2020 13:55 | WG1536658 |
| Ethylbenzene | U | | 0.000765 | 0.00259 | 1 | 09/02/2020 13:55 | WG1536658 |
| Total Xylenes | U | | 0.000913 | 0.00674 | 1 | 09/02/2020 13:55 | WG1536658 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 09/02/2020 13:55 | WG1536658 |
| (S) 4-Bromofluorobenzene | 94.6 | | | 67.0-138 | | 09/02/2020 13:55 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 93.7 | | | 70.0-130 | | 09/02/2020 13:55 | WG1536658 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.64 | 4.08 | 1 | 09/09/2020 17:06 | WG1539273 |
| C28-C40 Oil Range | 4.05 | B J | 0.279 | 4.08 | 1 | 09/09/2020 17:06 | WG1539273 |
| (S) o-Terphenyl | 90.0 | | | 18.0-148 | | 09/09/2020 17:06 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.7 | | 1 | 09/05/2020 22:55 | WG1538140 |

1 Cp

2 Tc

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 | 79.5 | | 9.52 | 20.7 | 1 | 09/01/2020 01:38 | WG1535206 |

3 Ss

4 Cn

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 | | 0.0224 | 0.103 | 1 | 09/02/2020 12:42 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 88.1 | | | 77.0-120 | | 09/02/2020 12:42 | WG1536524 |

5 Sr

6 Qc

7 Gl

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 | | 0.000499 | 0.00107 | 1 | 09/02/2020 14:14 | WG1536658 |
| Toluene | U | | 0.00139 | 0.00534 | 1 | 09/02/2020 14:14 | WG1536658 |
| Ethylbenzene | U | | 0.000788 | 0.00267 | 1 | 09/02/2020 14:14 | WG1536658 |
| Total Xylenes | U | | 0.000941 | 0.00695 | 1 | 09/02/2020 14:14 | WG1536658 |
| (S) Toluene-d8 | 106 | | | 75.0-131 | | 09/02/2020 14:14 | WG1536658 |
| (S) 4-Bromofluorobenzene | 95.9 | | | 67.0-138 | | 09/02/2020 14:14 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 90.3 | | | 70.0-130 | | 09/02/2020 14:14 | WG1536658 |

8 Al

9 Sc

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 | | 1.67 | 4.14 | 1 | 09/09/2020 17:19 | WG1539273 |
| C28-C40 Oil Range | 3.91 | BJ | 0.283 | 4.14 | 1 | 09/09/2020 17:19 | WG1539273 |
| (S) o-Terphenyl | 86.7 | | | 18.0-148 | | 09/09/2020 17:19 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 97.0 | | 1 | 09/05/2020 22:55 | WG1538140 |

1 Cp

2 Tc

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 80.8 | | 9.48 | 20.6 | 1 | 09/01/2020 01:57 | WG1535206 |

3 Ss

4 Cn

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | 0.0285 | J | 0.0224 | 0.103 | 1 | 09/02/2020 13:03 | WG1536524 |
| (S) a,a,a-Trifluorotoluene(FID) | 88.3 | | | 77.0-120 | | 09/02/2020 13:03 | WG1536524 |

5 Sr

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000496 | 0.00106 | 1 | 09/02/2020 14:33 | WG1536658 |
| Toluene | U | | 0.00138 | 0.00531 | 1 | 09/02/2020 14:33 | WG1536658 |
| Ethylbenzene | U | | 0.000783 | 0.00265 | 1 | 09/02/2020 14:33 | WG1536658 |
| Total Xylenes | U | | 0.000935 | 0.00690 | 1 | 09/02/2020 14:33 | WG1536658 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 14:33 | WG1536658 |
| (S) 4-Bromofluorobenzene | 95.3 | | | 67.0-138 | | 09/02/2020 14:33 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 96.6 | | | 70.0-130 | | 09/02/2020 14:33 | WG1536658 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.66 | 4.12 | 1 | 09/09/2020 15:24 | WG1539273 |
| C28-C40 Oil Range | 1.06 | B J | 0.282 | 4.12 | 1 | 09/09/2020 15:24 | WG1539273 |
| (S) o-Terphenyl | 81.6 | | | 18.0-148 | | 09/09/2020 15:24 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 98.1 | | 1 | 09/05/2020 22:55 | WG1538140 |

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 | 83.1 | | 9.38 | 20.4 | 1 | 09/01/2020 03:29 | WG1535206 |

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 | 0.0979 | J | 0.0223 | 0.103 | 1.01 | 09/02/2020 18:21 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 111 | | | 77.0-120 | | 09/02/2020 18:21 | WG1536763 |

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 | 09/02/2020 14:52 | WG1536658 |
| Toluene | U | | 0.00135 | 0.00519 | 1 | 09/02/2020 14:52 | WG1536658 |
| Ethylbenzene | U | | 0.000766 | 0.00260 | 1 | 09/02/2020 14:52 | WG1536658 |
| Total Xylenes | U | | 0.000914 | 0.00675 | 1 | 09/02/2020 14:52 | WG1536658 |
| (S) Toluene-d8 | 108 | | | 75.0-131 | | 09/02/2020 14:52 | WG1536658 |
| (S) 4-Bromofluorobenzene | 91.1 | | | 67.0-138 | | 09/02/2020 14:52 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 94.0 | | | 70.0-130 | | 09/02/2020 14:52 | WG1536658 |

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 | 2.77 | J | 1.64 | 4.08 | 1 | 09/09/2020 15:37 | WG1539273 |
| C28-C40 Oil Range | 7.11 | B | 0.279 | 4.08 | 1 | 09/09/2020 15:37 | WG1539273 |
| (S) o-Terphenyl | 89.3 | | | 18.0-148 | | 09/09/2020 15:37 | WG1539273 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 94.8 | | 1 | 09/05/2020 22:55 | WG1538140 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 176 | | 9.70 | 21.1 | 1 | 09/01/2020 03:47 | WG1535206 |

5 Sr

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0229 | 0.105 | 1 | 09/02/2020 18:42 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 104 | | | 77.0-120 | | 09/02/2020 18:42 | WG1536763 |

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000518 | 0.00111 | 1 | 09/02/2020 15:11 | WG1536658 |
| Toluene | U | | 0.00144 | 0.00555 | 1 | 09/02/2020 15:11 | WG1536658 |
| Ethylbenzene | U | | 0.000818 | 0.00277 | 1 | 09/02/2020 15:11 | WG1536658 |
| Total Xylenes | U | | 0.000977 | 0.00721 | 1 | 09/02/2020 15:11 | WG1536658 |
| (S) Toluene-d8 | 105 | | | 75.0-131 | | 09/02/2020 15:11 | WG1536658 |
| (S) 4-Bromofluorobenzene | 90.9 | | | 67.0-138 | | 09/02/2020 15:11 | WG1536658 |
| (S) 1,2-Dichloroethane-d4 | 93.9 | | | 70.0-130 | | 09/02/2020 15:11 | WG1536658 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 9.15 | | 1.70 | 4.22 | 1 | 09/10/2020 05:45 | WG1539273 |
| C28-C40 Oil Range | 35.3 | | 0.289 | 4.22 | 1 | 09/10/2020 05:45 | WG1539273 |
| (S) o-Terphenyl | 62.7 | | | 18.0-148 | | 09/10/2020 05:45 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.1 | | 1 | 09/05/2020 22:55 | WG1538140 |

1 Cp

2 Tc

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 | 285 | | 9.47 | 20.6 | 1 | 09/01/2020 04:05 | WG1535206 |

3 Ss

4 Cn

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 | | 0.0223 | 0.103 | 1 | 09/02/2020 19:03 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 106 | | | 77.0-120 | | 09/02/2020 19:03 | WG1536763 |

5 Sr

6 Qc

7 Gl

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 | | 0.000495 | 0.00106 | 1 | 09/02/2020 09:27 | WG1536695 |
| Toluene | U | | 0.00138 | 0.00530 | 1 | 09/02/2020 09:27 | WG1536695 |
| Ethylbenzene | U | | 0.000781 | 0.00265 | 1 | 09/02/2020 09:27 | WG1536695 |
| Total Xylenes | U | | 0.000933 | 0.00689 | 1 | 09/02/2020 09:27 | WG1536695 |
| (S) Toluene-d8 | 98.7 | | | 75.0-131 | | 09/02/2020 09:27 | WG1536695 |
| (S) 4-Bromofluorobenzene | 111 | | | 67.0-138 | | 09/02/2020 09:27 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 112 | | | 70.0-130 | | 09/02/2020 09:27 | WG1536695 |

8 Al

9 Sc

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 | 1.81 | <u>J</u> | 1.66 | 4.12 | 1 | 09/09/2020 16:54 | WG1539273 |
| C28-C40 Oil Range | 6.99 | <u>B</u> | 0.282 | 4.12 | 1 | 09/09/2020 16:54 | WG1539273 |
| (S) o-Terphenyl | 87.8 | | | 18.0-148 | | 09/09/2020 16:54 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 98.4 | | 1 | 09/05/2020 22:55 | WG1538140 |

1 Cp

2 Tc

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 | 91.4 | | 9.35 | 20.3 | 1 | 09/01/2020 04:24 | WG1535206 |

3 Ss

4 Cn

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 | | 0.0223 | 0.103 | 1.01 | 09/02/2020 19:23 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 105 | | | 77.0-120 | | 09/02/2020 19:23 | WG1536763 |

5 Sr

6 Qc

7 Gl

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 | 09/02/2020 09:46 | WG1536695 |
| Toluene | U | | 0.00134 | 0.00516 | 1 | 09/02/2020 09:46 | WG1536695 |
| Ethylbenzene | U | | 0.000761 | 0.00258 | 1 | 09/02/2020 09:46 | WG1536695 |
| Total Xylenes | U | | 0.000909 | 0.00671 | 1 | 09/02/2020 09:46 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 09:46 | WG1536695 |
| (S) 4-Bromofluorobenzene | 110 | | | 67.0-138 | | 09/02/2020 09:46 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/02/2020 09:46 | WG1536695 |

8 Al

9 Sc

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 | | 1.64 | 4.06 | 1 | 09/09/2020 15:50 | WG1539273 |
| C28-C40 Oil Range | 1.21 | BJ | 0.278 | 4.06 | 1 | 09/09/2020 15:50 | WG1539273 |
| (S) o-Terphenyl | 90.2 | | | 18.0-148 | | 09/09/2020 15:50 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.1 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 148 | | 9.67 | 21.0 | 1 | 09/01/2020 04:42 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0228 | 0.105 | 1 | 09/02/2020 19:44 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 109 | | | 77.0-120 | | 09/02/2020 19:44 | WG1536763 |

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 | | 0.000515 | 0.00110 | 1 | 09/02/2020 10:05 | WG1536695 |
| Toluene | U | | 0.00143 | 0.00551 | 1 | 09/02/2020 10:05 | WG1536695 |
| Ethylbenzene | U | | 0.000812 | 0.00276 | 1 | 09/02/2020 10:05 | WG1536695 |
| Total Xylenes | U | | 0.000970 | 0.00716 | 1 | 09/02/2020 10:05 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 10:05 | WG1536695 |
| (S) 4-Bromofluorobenzene | 108 | | | 67.0-138 | | 09/02/2020 10:05 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 110 | | | 70.0-130 | | 09/02/2020 10:05 | WG1536695 |

- 8 Al
- 9 Sc

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 | | 1.69 | 4.20 | 1 | 09/09/2020 16:02 | WG1539273 |
| C28-C40 Oil Range | 1.39 | <u>BJ</u> | 0.288 | 4.20 | 1 | 09/09/2020 16:02 | WG1539273 |
| (S) o-Terphenyl | 79.7 | | | 18.0-148 | | 09/09/2020 16:02 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 99.8 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.22 | 20.0 | 1 | 09/01/2020 05:01 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0218 | 0.100 | 1 | 09/02/2020 20:05 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 108 | | | 77.0-120 | | 09/02/2020 20:05 | WG1536763 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000469 | 0.00100 | 1 | 09/02/2020 10:24 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00502 | 1 | 09/02/2020 10:24 | WG1536695 |
| Ethylbenzene | U | | 0.000741 | 0.00251 | 1 | 09/02/2020 10:24 | WG1536695 |
| Total Xylenes | U | | 0.000884 | 0.00653 | 1 | 09/02/2020 10:24 | WG1536695 |
| (S) Toluene-d8 | 98.3 | | | 75.0-131 | | 09/02/2020 10:24 | WG1536695 |
| (S) 4-Bromofluorobenzene | 111 | | | 67.0-138 | | 09/02/2020 10:24 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 111 | | | 70.0-130 | | 09/02/2020 10:24 | WG1536695 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 6.99 | | 1.61 | 4.01 | 1 | 09/10/2020 05:58 | WG1539273 |
| C28-C40 Oil Range | 34.5 | | 0.275 | 4.01 | 1 | 09/10/2020 05:58 | WG1539273 |
| (S) o-Terphenyl | 68.6 | | | 18.0-148 | | 09/10/2020 05:58 | WG1539273 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 99.7 | | 1 | 09/06/2020 23:54 | WG1538141 |

1 Cp

2 Tc

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.23 | 20.1 | 1 | 09/01/2020 05:19 | WG1535206 |

3 Ss

4 Cn

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0218 | 0.100 | 1 | 09/02/2020 20:26 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 105 | | | 77.0-120 | | 09/02/2020 20:26 | WG1536763 |

5 Sr

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | 0.000503 | J | 0.000470 | 0.00101 | 1 | 09/02/2020 10:43 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00503 | 1 | 09/02/2020 10:43 | WG1536695 |
| Ethylbenzene | U | | 0.000742 | 0.00252 | 1 | 09/02/2020 10:43 | WG1536695 |
| Total Xylenes | U | | 0.000886 | 0.00654 | 1 | 09/02/2020 10:43 | WG1536695 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 10:43 | WG1536695 |
| (S) 4-Bromofluorobenzene | 107 | | | 67.0-138 | | 09/02/2020 10:43 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 104 | | | 70.0-130 | | 09/02/2020 10:43 | WG1536695 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.62 | 4.01 | 1 | 09/08/2020 18:12 | WG1539274 |
| C28-C40 Oil Range | 1.13 | J | 0.275 | 4.01 | 1 | 09/08/2020 18:12 | WG1539274 |
| (S) o-Terphenyl | 85.9 | | | 18.0-148 | | 09/08/2020 18:12 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 99.8 | | 1 | 09/06/2020 23:54 | WG1538141 |

1 Cp

2 Tc

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 | | 9.22 | 20.0 | 1 | 09/01/2020 05:38 | WG1535206 |

3 Ss

4 Cn

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 | 0.0331 | J | 0.0217 | 0.100 | 1 | 09/02/2020 20:46 | WG1536763 |
| (S) a,a,a-Trifluorotoluene(FID) | 109 | | | 77.0-120 | | 09/02/2020 20:46 | WG1536763 |

5 Sr

6 Qc

7 Gl

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 | | 0.000469 | 0.00100 | 1 | 09/02/2020 11:02 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00502 | 1 | 09/02/2020 11:02 | WG1536695 |
| Ethylbenzene | U | | 0.000740 | 0.00251 | 1 | 09/02/2020 11:02 | WG1536695 |
| Total Xylenes | U | | 0.000884 | 0.00653 | 1 | 09/02/2020 11:02 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 11:02 | WG1536695 |
| (S) 4-Bromofluorobenzene | 109 | | | 67.0-138 | | 09/02/2020 11:02 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 110 | | | 70.0-130 | | 09/02/2020 11:02 | WG1536695 |

8 Al

9 Sc

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 | 3.08 | J | 1.61 | 4.01 | 1 | 09/08/2020 18:25 | WG1539274 |
| C28-C40 Oil Range | U | | 0.275 | 4.01 | 1 | 09/08/2020 18:25 | WG1539274 |
| (S) o-Terphenyl | 82.2 | | | 18.0-148 | | 09/08/2020 18:25 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 99.8 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.22 | 20.0 | 1 | 09/01/2020 05:56 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | 1 | 09/02/2020 12:16 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.8 | | | 77.0-120 | | 09/02/2020 12:16 | WG1536768 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000469 | 0.00100 | 1 | 09/02/2020 11:20 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00502 | 1 | 09/02/2020 11:20 | WG1536695 |
| Ethylbenzene | U | | 0.000740 | 0.00251 | 1 | 09/02/2020 11:20 | WG1536695 |
| Total Xylenes | U | | 0.000884 | 0.00653 | 1 | 09/02/2020 11:20 | WG1536695 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 11:20 | WG1536695 |
| (S) 4-Bromofluorobenzene | 110 | | | 67.0-138 | | 09/02/2020 11:20 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 09/02/2020 11:20 | WG1536695 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 3.21 | J | 1.61 | 4.01 | 1 | 09/08/2020 20:32 | WG1539274 |
| C28-C40 Oil Range | 5.16 | | 0.275 | 4.01 | 1 | 09/08/2020 20:32 | WG1539274 |
| (S) o-Terphenyl | 90.4 | | | 18.0-148 | | 09/08/2020 20:32 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 99.8 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.22 | 20.0 | 1 | 09/01/2020 06:51 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0218 | 0.100 | 1 | 09/02/2020 13:23 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.0 | | | 77.0-120 | | 09/02/2020 13:23 | WG1536768 |

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 | | 0.000469 | 0.00100 | 1 | 09/02/2020 11:39 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00502 | 1 | 09/02/2020 11:39 | WG1536695 |
| Ethylbenzene | U | | 0.000741 | 0.00251 | 1 | 09/02/2020 11:39 | WG1536695 |
| Total Xylenes | U | | 0.000884 | 0.00653 | 1 | 09/02/2020 11:39 | WG1536695 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 11:39 | WG1536695 |
| (S) 4-Bromofluorobenzene | 107 | | | 67.0-138 | | 09/02/2020 11:39 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/02/2020 11:39 | WG1536695 |

- 8 Al
- 9 Sc

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 | 2.16 | J | 1.61 | 4.01 | 1 | 09/08/2020 18:38 | WG1539274 |
| C28-C40 Oil Range | 2.59 | J | 0.275 | 4.01 | 1 | 09/08/2020 18:38 | WG1539274 |
| (S) o-Terphenyl | 87.5 | | | 18.0-148 | | 09/08/2020 18:38 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 99.8 | | 1 | 09/06/2020 23:54 | WG1538141 |

1 Cp

2 Tc

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 | | 9.22 | 20.0 | 1 | 09/01/2020 07:10 | WG1535206 |

3 Ss

4 Cn

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 | | 0.0217 | 0.100 | 1 | 09/02/2020 13:45 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | | 77.0-120 | | 09/02/2020 13:45 | WG1536768 |

5 Sr

6 Qc

7 Gl

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 | | 0.000469 | 0.00100 | 1 | 09/02/2020 11:58 | WG1536695 |
| Toluene | U | | 0.00131 | 0.00502 | 1 | 09/02/2020 11:58 | WG1536695 |
| Ethylbenzene | U | | 0.000740 | 0.00251 | 1 | 09/02/2020 11:58 | WG1536695 |
| Total Xylenes | U | | 0.000884 | 0.00653 | 1 | 09/02/2020 11:58 | WG1536695 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 11:58 | WG1536695 |
| (S) 4-Bromofluorobenzene | 108 | | | 67.0-138 | | 09/02/2020 11:58 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/02/2020 11:58 | WG1536695 |

8 Al

9 Sc

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 | 2.52 | J | 1.61 | 4.01 | 1 | 09/08/2020 20:45 | WG1539274 |
| C28-C40 Oil Range | 3.24 | J | 0.275 | 4.01 | 1 | 09/08/2020 20:45 | WG1539274 |
| (S) o-Terphenyl | 90.9 | | | 18.0-148 | | 09/08/2020 20:45 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 99.1 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 15.4 | J | 9.28 | 20.2 | 1 | 09/01/2020 07:47 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 1.01 | 09/02/2020 14:07 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | | 77.0-120 | | 09/02/2020 14:07 | WG1536768 |

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 | 09/02/2020 12:17 | WG1536695 |
| Toluene | U | | 0.00132 | 0.00509 | 1 | 09/02/2020 12:17 | WG1536695 |
| Ethylbenzene | U | | 0.000750 | 0.00254 | 1 | 09/02/2020 12:17 | WG1536695 |
| Total Xylenes | U | | 0.000895 | 0.00661 | 1 | 09/02/2020 12:17 | WG1536695 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 12:17 | WG1536695 |
| (S) 4-Bromofluorobenzene | 109 | | | 67.0-138 | | 09/02/2020 12:17 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/02/2020 12:17 | WG1536695 |

- 8 Al
- 9 Sc

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 | 3.75 | J | 1.62 | 4.04 | 1 | 09/08/2020 21:11 | WG1539274 |
| C28-C40 Oil Range | 13.6 | | 0.276 | 4.04 | 1 | 09/08/2020 21:11 | WG1539274 |
| (S) o-Terphenyl | 92.1 | | | 18.0-148 | | 09/08/2020 21:11 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 99.2 | | 1 | 09/06/2020 23:54 | WG1538141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.28 | 20.2 | 1 | 09/01/2020 08:05 | WG1535206 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0219 | 0.101 | 1 | 09/02/2020 14:30 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | | 77.0-120 | | 09/02/2020 14:30 | WG1536768 |

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 | 09/02/2020 12:36 | WG1536695 |
| Toluene | U | | 0.00132 | 0.00508 | 1 | 09/02/2020 12:36 | WG1536695 |
| Ethylbenzene | U | | 0.000749 | 0.00254 | 1 | 09/02/2020 12:36 | WG1536695 |
| Total Xylenes | U | | 0.000895 | 0.00661 | 1 | 09/02/2020 12:36 | WG1536695 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 12:36 | WG1536695 |
| (S) 4-Bromofluorobenzene | 111 | | | 67.0-138 | | 09/02/2020 12:36 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 09/02/2020 12:36 | WG1536695 |

- 8 Al
- 9 Sc

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 | 1.77 | J | 1.62 | 4.03 | 1 | 09/08/2020 18:50 | WG1539274 |
| C28-C40 Oil Range | 0.869 | J | 0.276 | 4.03 | 1 | 09/08/2020 18:50 | WG1539274 |
| (S) o-Terphenyl | 89.9 | | | 18.0-148 | | 09/08/2020 18:50 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 95.5 | | 1 | 09/06/2020 23:54 | WG1538141 |

1 Cp

2 Tc

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.63 | 20.9 | 1 | 09/01/2020 08:23 | WG1535206 |

3 Ss

4 Cn

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0227 | 0.105 | 1 | 09/02/2020 14:52 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 97.1 | | | 77.0-120 | | 09/02/2020 14:52 | WG1536768 |

5 Sr

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000511 | 0.00109 | 1 | 09/02/2020 12:55 | WG1536695 |
| Toluene | U | | 0.00142 | 0.00547 | 1 | 09/02/2020 12:55 | WG1536695 |
| Ethylbenzene | U | | 0.000807 | 0.00274 | 1 | 09/02/2020 12:55 | WG1536695 |
| Total Xylenes | U | | 0.000963 | 0.00712 | 1 | 09/02/2020 12:55 | WG1536695 |
| (S) Toluene-d8 | 100 | | | 75.0-131 | | 09/02/2020 12:55 | WG1536695 |
| (S) 4-Bromofluorobenzene | 110 | | | 67.0-138 | | 09/02/2020 12:55 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 | | 09/02/2020 12:55 | WG1536695 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.69 | 4.19 | 1 | 09/08/2020 19:03 | WG1539274 |
| C28-C40 Oil Range | 2.27 | J | 0.287 | 4.19 | 1 | 09/08/2020 19:03 | WG1539274 |
| (S) o-Terphenyl | 85.7 | | | 18.0-148 | | 09/08/2020 19:03 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.6 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.62 | 20.9 | 1 | 09/01/2020 03:04 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0227 | 0.105 | 1 | 09/02/2020 15:14 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.8 | | | 77.0-120 | | 09/02/2020 15:14 | WG1536768 |

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 | 0.000919 | J | 0.000510 | 0.00109 | 1 | 09/02/2020 13:14 | WG1536695 |
| Toluene | U | | 0.00142 | 0.00546 | 1 | 09/02/2020 13:14 | WG1536695 |
| Ethylbenzene | U | | 0.000805 | 0.00273 | 1 | 09/02/2020 13:14 | WG1536695 |
| Total Xylenes | U | | 0.000961 | 0.00710 | 1 | 09/02/2020 13:14 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 13:14 | WG1536695 |
| (S) 4-Bromofluorobenzene | 104 | | | 67.0-138 | | 09/02/2020 13:14 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/02/2020 13:14 | WG1536695 |

- 8 Al
- 9 Sc

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 | 09/08/2020 19:16 | WG1539274 |
| C28-C40 Oil Range | 1.30 | J | 0.287 | 4.18 | 1 | 09/08/2020 19:16 | WG1539274 |
| (S) o-Terphenyl | 87.5 | | | 18.0-148 | | 09/08/2020 19:16 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.1 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.57 | 20.8 | 1 | 09/01/2020 03:28 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0226 | 0.104 | 1 | 09/02/2020 15:37 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.4 | | | 77.0-120 | | 09/02/2020 15:37 | WG1536768 |

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 | | 0.000505 | 0.00108 | 1 | 09/02/2020 13:32 | WG1536695 |
| Toluene | U | | 0.00141 | 0.00540 | 1 | 09/02/2020 13:32 | WG1536695 |
| Ethylbenzene | U | | 0.000797 | 0.00270 | 1 | 09/02/2020 13:32 | WG1536695 |
| Total Xylenes | U | | 0.000951 | 0.00703 | 1 | 09/02/2020 13:32 | WG1536695 |
| (S) Toluene-d8 | 100 | | | 75.0-131 | | 09/02/2020 13:32 | WG1536695 |
| (S) 4-Bromofluorobenzene | 108 | | | 67.0-138 | | 09/02/2020 13:32 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/02/2020 13:32 | WG1536695 |

- 8 Al
- 9 Sc

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 | | 1.67 | 4.16 | 1 | 09/08/2020 19:29 | WG1539274 |
| C28-C40 Oil Range | U | | 0.285 | 4.16 | 1 | 09/08/2020 19:29 | WG1539274 |
| (S) o-Terphenyl | 82.1 | | | 18.0-148 | | 09/08/2020 19:29 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 94.4 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 21.5 | | 9.74 | 21.2 | 1 | 09/01/2020 03:40 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0230 | 0.106 | 1 | 09/02/2020 15:59 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.2 | | | 77.0-120 | | 09/02/2020 15:59 | WG1536768 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000522 | 0.00112 | 1 | 09/02/2020 13:51 | WG1536695 |
| Toluene | U | | 0.00145 | 0.00559 | 1 | 09/02/2020 13:51 | WG1536695 |
| Ethylbenzene | U | | 0.000824 | 0.00280 | 1 | 09/02/2020 13:51 | WG1536695 |
| Total Xylenes | U | | 0.000984 | 0.00727 | 1 | 09/02/2020 13:51 | WG1536695 |
| (S) Toluene-d8 | 100 | | | 75.0-131 | | 09/02/2020 13:51 | WG1536695 |
| (S) 4-Bromofluorobenzene | 109 | | | 67.0-138 | | 09/02/2020 13:51 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 70.0-130 | | 09/02/2020 13:51 | WG1536695 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 1390 | | 17.1 | 42.4 | 10 | 09/09/2020 04:34 | WG1539274 |
| C28-C40 Oil Range | 3040 | | 14.5 | 212 | 50 | 09/09/2020 11:48 | WG1539274 |
| (S) o-Terphenyl | 79.6 | | | 18.0-148 | | 09/09/2020 04:34 | WG1539274 |
| (S) o-Terphenyl | 0.000 | J7 | | 18.0-148 | | 09/09/2020 11:48 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.8 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 9.44 | J | 9.41 | 20.5 | 1 | 09/01/2020 03:52 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0222 | 0.102 | 1 | 09/02/2020 16:22 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.1 | | | 77.0-120 | | 09/02/2020 16:22 | WG1536768 |

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 | | 0.000488 | 0.00105 | 1 | 09/02/2020 14:10 | WG1536695 |
| Toluene | U | | 0.00136 | 0.00523 | 1 | 09/02/2020 14:10 | WG1536695 |
| Ethylbenzene | U | | 0.000771 | 0.00261 | 1 | 09/02/2020 14:10 | WG1536695 |
| Total Xylenes | 0.00119 | J | 0.000920 | 0.00680 | 1 | 09/02/2020 14:10 | WG1536695 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 14:10 | WG1536695 |
| (S) 4-Bromofluorobenzene | 111 | | | 67.0-138 | | 09/02/2020 14:10 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 106 | | | 70.0-130 | | 09/02/2020 14:10 | WG1536695 |

- 8 Al
- 9 Sc

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 | 37.9 | | 1.65 | 4.09 | 1 | 09/11/2020 03:02 | WG1540114 |
| C28-C40 Oil Range | 100 | | 0.280 | 4.09 | 1 | 09/11/2020 03:02 | WG1540114 |
| (S) o-Terphenyl | 58.6 | | | 18.0-148 | | 09/11/2020 03:02 | WG1540114 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.8 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 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 | U | | 48.0 | 104 | 5 | 09/01/2020 04:03 | WG1535327 |

Sample Narrative:

L1256203-25 WG1535327: Dilution due to sample matrix

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 | | 0.0227 | 0.104 | 1 | 09/02/2020 16:44 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.3 | | | 77.0-120 | | 09/02/2020 16:44 | WG1536768 |

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 | | 0.000508 | 0.00109 | 1 | 09/02/2020 14:29 | WG1536695 |
| Toluene | U | | 0.00141 | 0.00544 | 1 | 09/02/2020 14:29 | WG1536695 |
| Ethylbenzene | U | | 0.000802 | 0.00272 | 1 | 09/02/2020 14:29 | WG1536695 |
| Total Xylenes | U | | 0.000957 | 0.00707 | 1 | 09/02/2020 14:29 | WG1536695 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 14:29 | WG1536695 |
| (S) 4-Bromofluorobenzene | 109 | | | 67.0-138 | | 09/02/2020 14:29 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 109 | | | 70.0-130 | | 09/02/2020 14:29 | WG1536695 |

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 | 8.05 | | 1.68 | 4.18 | 1 | 09/08/2020 20:58 | WG1539274 |
| C28-C40 Oil Range | 14.5 | | 0.286 | 4.18 | 1 | 09/08/2020 20:58 | WG1539274 |
| (S) o-Terphenyl | 90.3 | | | 18.0-148 | | 09/08/2020 20:58 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 95.2 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 57.8 | | 9.67 | 21.0 | 1 | 09/01/2020 04:15 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0228 | 0.105 | 1 | 09/02/2020 17:06 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | | 77.0-120 | | 09/02/2020 17:06 | WG1536768 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000515 | 0.00110 | 1 | 09/02/2020 14:47 | WG1536695 |
| Toluene | U | | 0.00143 | 0.00551 | 1 | 09/02/2020 14:47 | WG1536695 |
| Ethylbenzene | U | | 0.000812 | 0.00275 | 1 | 09/02/2020 14:47 | WG1536695 |
| Total Xylenes | U | | 0.000970 | 0.00716 | 1 | 09/02/2020 14:47 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 14:47 | WG1536695 |
| (S) 4-Bromofluorobenzene | 114 | | | 67.0-138 | | 09/02/2020 14:47 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 110 | | | 70.0-130 | | 09/02/2020 14:47 | WG1536695 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 11.5 | | 1.69 | 4.20 | 1 | 09/09/2020 04:08 | WG1539274 |
| C28-C40 Oil Range | 39.5 | | 0.288 | 4.20 | 1 | 09/09/2020 04:08 | WG1539274 |
| (S) o-Terphenyl | 57.1 | | | 18.0-148 | | 09/09/2020 04:08 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 95.0 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 41.1 | | 9.68 | 21.0 | 1 | 09/01/2020 04:27 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 09/02/2020 17:28 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | | 77.0-120 | | 09/02/2020 17:28 | WG1536768 |

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 | | 0.000516 | 0.00110 | 1 | 09/02/2020 15:06 | WG1536695 |
| Toluene | U | | 0.00144 | 0.00552 | 1 | 09/02/2020 15:06 | WG1536695 |
| Ethylbenzene | U | | 0.000814 | 0.00276 | 1 | 09/02/2020 15:06 | WG1536695 |
| Total Xylenes | U | | 0.000972 | 0.00718 | 1 | 09/02/2020 15:06 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 15:06 | WG1536695 |
| (S) 4-Bromofluorobenzene | 107 | | | 67.0-138 | | 09/02/2020 15:06 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 | | 09/02/2020 15:06 | WG1536695 |

- 8 Al
- 9 Sc

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 | 1.89 | J | 1.69 | 4.21 | 1 | 09/08/2020 20:20 | WG1539274 |
| C28-C40 Oil Range | 1.98 | J | 0.288 | 4.21 | 1 | 09/08/2020 20:20 | WG1539274 |
| (S) o-Terphenyl | 85.8 | | | 18.0-148 | | 09/08/2020 20:20 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 97.4 | | 1 | 09/06/2020 22:54 | WG1538143 |

1 Cp

2 Tc

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 9.55 | J | 9.44 | 20.5 | 1 | 09/01/2020 05:28 | WG1535327 |

3 Ss

4 Cn

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0223 | 0.103 | 1 | 09/02/2020 18:17 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.6 | | | 77.0-120 | | 09/02/2020 18:17 | WG1536768 |

5 Sr

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000492 | 0.00105 | 1 | 09/02/2020 15:25 | WG1536695 |
| Toluene | U | | 0.00137 | 0.00527 | 1 | 09/02/2020 15:25 | WG1536695 |
| Ethylbenzene | U | | 0.000776 | 0.00263 | 1 | 09/02/2020 15:25 | WG1536695 |
| Total Xylenes | U | | 0.000927 | 0.00685 | 1 | 09/02/2020 15:25 | WG1536695 |
| (S) Toluene-d8 | 101 | | | 75.0-131 | | 09/02/2020 15:25 | WG1536695 |
| (S) 4-Bromofluorobenzene | 108 | | | 67.0-138 | | 09/02/2020 15:25 | WG1536695 |
| (S) 1,2-Dichloroethane-d4 | 107 | | | 70.0-130 | | 09/02/2020 15:25 | WG1536695 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 57.9 | | 16.5 | 41.1 | 10 | 09/08/2020 22:40 | WG1539274 |
| C28-C40 Oil Range | 171 | | 2.81 | 41.1 | 10 | 09/08/2020 22:40 | WG1539274 |
| (S) o-Terphenyl | 70.1 | | | 18.0-148 | | 09/08/2020 22:40 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 98.8 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.31 | 20.2 | 1 | 09/01/2020 05:41 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0220 | 0.101 | 1 | 09/02/2020 18:39 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | | 77.0-120 | | 09/02/2020 18:39 | WG1536768 |

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 | 0.00102 | 1 | 09/02/2020 11:39 | WG1536720 |
| Toluene | U | | 0.00133 | 0.00512 | 1 | 09/02/2020 11:39 | WG1536720 |
| Ethylbenzene | U | | 0.000755 | 0.00256 | 1 | 09/02/2020 11:39 | WG1536720 |
| Total Xylenes | U | | 0.000902 | 0.00666 | 1 | 09/02/2020 11:39 | WG1536720 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 11:39 | WG1536720 |
| (S) 4-Bromofluorobenzene | 93.1 | | | 67.0-138 | | 09/02/2020 11:39 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 100 | | | 70.0-130 | | 09/02/2020 11:39 | WG1536720 |

- 8 Al
- 9 Sc

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 | | 1.63 | 4.05 | 1 | 09/08/2020 19:54 | WG1539274 |
| C28-C40 Oil Range | 1.81 | J | 0.277 | 4.05 | 1 | 09/08/2020 19:54 | WG1539274 |
| (S) o-Terphenyl | 78.9 | | | 18.0-148 | | 09/08/2020 19:54 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.6 | | 1 | 09/06/2020 22:54 | WG1538143 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 29.8 | | 9.52 | 20.7 | 1 | 09/01/2020 05:53 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0225 | 0.104 | 1 | 09/02/2020 19:01 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 97.1 | | | 77.0-120 | | 09/02/2020 19:01 | WG1536768 |

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 | | 0.000500 | 0.00107 | 1 | 09/02/2020 11:58 | WG1536720 |
| Toluene | U | | 0.00139 | 0.00535 | 1 | 09/02/2020 11:58 | WG1536720 |
| Ethylbenzene | U | | 0.000789 | 0.00268 | 1 | 09/02/2020 11:58 | WG1536720 |
| Total Xylenes | U | | 0.000942 | 0.00696 | 1 | 09/02/2020 11:58 | WG1536720 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 11:58 | WG1536720 |
| (S) 4-Bromofluorobenzene | 91.6 | | | 67.0-138 | | 09/02/2020 11:58 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 97.3 | | | 70.0-130 | | 09/02/2020 11:58 | WG1536720 |

- 8 Al
- 9 Sc

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 | 6.12 | | 1.67 | 4.14 | 1 | 09/09/2020 04:21 | WG1539274 |
| C28-C40 Oil Range | 18.2 | | 0.284 | 4.14 | 1 | 09/09/2020 04:21 | WG1539274 |
| (S) o-Terphenyl | 68.1 | | | 18.0-148 | | 09/09/2020 04:21 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 609 | | 9.73 | 21.1 | 1 | 09/01/2020 06:05 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0229 | 0.106 | 1 | 09/02/2020 19:23 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.7 | | | 77.0-120 | | 09/02/2020 19:23 | WG1536768 |

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 | | 0.000521 | 0.00112 | 1 | 09/02/2020 12:17 | WG1536720 |
| Toluene | U | | 0.00145 | 0.00558 | 1 | 09/02/2020 12:17 | WG1536720 |
| Ethylbenzene | U | | 0.000822 | 0.00279 | 1 | 09/02/2020 12:17 | WG1536720 |
| Total Xylenes | U | | 0.000981 | 0.00725 | 1 | 09/02/2020 12:17 | WG1536720 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 12:17 | WG1536720 |
| (S) 4-Bromofluorobenzene | 93.8 | | | 67.0-138 | | 09/02/2020 12:17 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/02/2020 12:17 | WG1536720 |

- 8 Al
- 9 Sc

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 | | 1.70 | 4.23 | 1 | 09/08/2020 20:07 | WG1539274 |
| C28-C40 Oil Range | 2.97 | J | 0.290 | 4.23 | 1 | 09/08/2020 20:07 | WG1539274 |
| (S) o-Terphenyl | 78.7 | | | 18.0-148 | | 09/08/2020 20:07 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 95.3 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 472 | | 9.66 | 21.0 | 1 | 09/01/2020 06:16 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 09/02/2020 19:45 | WG1536768 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.0 | | | 77.0-120 | | 09/02/2020 19:45 | WG1536768 |

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 | | 0.000513 | 0.00110 | 1 | 09/02/2020 12:36 | WG1536720 |
| Toluene | U | | 0.00143 | 0.00550 | 1 | 09/02/2020 12:36 | WG1536720 |
| Ethylbenzene | U | | 0.000810 | 0.00275 | 1 | 09/02/2020 12:36 | WG1536720 |
| Total Xylenes | U | | 0.000967 | 0.00715 | 1 | 09/02/2020 12:36 | WG1536720 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 12:36 | WG1536720 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 67.0-138 | | 09/02/2020 12:36 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 96.5 | | | 70.0-130 | | 09/02/2020 12:36 | WG1536720 |

- 8 Al
- 9 Sc

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 | 09/08/2020 19:41 | WG1539274 |
| C28-C40 Oil Range | U | | 0.288 | 4.20 | 1 | 09/08/2020 19:41 | WG1539274 |
| (S) o-Terphenyl | 69.9 | | | 18.0-148 | | 09/08/2020 19:41 | WG1539274 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 96.1 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 433 | | 9.58 | 20.8 | 1 | 09/01/2020 06:28 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0226 | 0.104 | 1 | 09/02/2020 19:29 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.2 | | | 77.0-120 | | 09/02/2020 19:29 | WG1536987 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000505 | 0.00108 | 1 | 09/02/2020 12:55 | WG1536720 |
| Toluene | U | | 0.00141 | 0.00541 | 1 | 09/02/2020 12:55 | WG1536720 |
| Ethylbenzene | U | | 0.000797 | 0.00271 | 1 | 09/02/2020 12:55 | WG1536720 |
| Total Xylenes | U | | 0.000952 | 0.00703 | 1 | 09/02/2020 12:55 | WG1536720 |
| (S) Toluene-d8 | 105 | | | 75.0-131 | | 09/02/2020 12:55 | WG1536720 |
| (S) 4-Bromofluorobenzene | 97.6 | | | 67.0-138 | | 09/02/2020 12:55 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/02/2020 12:55 | WG1536720 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 1.80 | J | 1.68 | 4.16 | 1 | 09/09/2020 04:59 | WG1539276 |
| C28-C40 Oil Range | 3.90 | B J | 0.285 | 4.16 | 1 | 09/09/2020 04:59 | WG1539276 |
| (S) o-Terphenyl | 61.9 | | | 18.0-148 | | 09/09/2020 04:59 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 90.4 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 1550 | | 50.9 | 111 | 5 | 09/01/2020 06:41 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0240 | 0.111 | 1 | 09/02/2020 19:52 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.2 | | | 77.0-120 | | 09/02/2020 19:52 | WG1536987 |

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 | | 0.000566 | 0.00121 | 1 | 09/02/2020 13:15 | WG1536720 |
| Toluene | U | | 0.00158 | 0.00606 | 1 | 09/02/2020 13:15 | WG1536720 |
| Ethylbenzene | U | | 0.000893 | 0.00303 | 1 | 09/02/2020 13:15 | WG1536720 |
| Total Xylenes | U | | 0.00107 | 0.00788 | 1 | 09/02/2020 13:15 | WG1536720 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 13:15 | WG1536720 |
| (S) 4-Bromofluorobenzene | 92.0 | | | 67.0-138 | | 09/02/2020 13:15 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 09/02/2020 13:15 | WG1536720 |

- 8 Al
- 9 Sc

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 | | 1.78 | 4.42 | 1 | 09/09/2020 05:12 | WG1539276 |
| C28-C40 Oil Range | 3.11 | <u>BJ</u> | 0.303 | 4.42 | 1 | 09/09/2020 05:12 | WG1539276 |
| (S) o-Terphenyl | 70.6 | | | 18.0-148 | | 09/09/2020 05:12 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 98.1 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.38 | 20.4 | 1 | 09/01/2020 06:53 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0221 | 0.102 | 1 | 09/02/2020 20:15 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.4 | | | 77.0-120 | | 09/02/2020 20:15 | WG1536987 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000485 | 0.00104 | 1 | 09/02/2020 13:34 | WG1536720 |
| Toluene | U | | 0.00135 | 0.00519 | 1 | 09/02/2020 13:34 | WG1536720 |
| Ethylbenzene | U | | 0.000765 | 0.00260 | 1 | 09/02/2020 13:34 | WG1536720 |
| Total Xylenes | U | | 0.000914 | 0.00675 | 1 | 09/02/2020 13:34 | WG1536720 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 13:34 | WG1536720 |
| (S) 4-Bromofluorobenzene | 93.9 | | | 67.0-138 | | 09/02/2020 13:34 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 104 | | | 70.0-130 | | 09/02/2020 13:34 | WG1536720 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 1.89 | <u>J</u> | 1.64 | 4.08 | 1 | 09/09/2020 05:24 | WG1539276 |
| C28-C40 Oil Range | 6.37 | <u>B</u> | 0.279 | 4.08 | 1 | 09/09/2020 05:24 | WG1539276 |
| (S) o-Terphenyl | 71.1 | | | 18.0-148 | | 09/09/2020 05:24 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 98.4 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.35 | 20.3 | 1 | 09/01/2020 07:29 | WG1535327 |

5 Sr

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0221 | 0.102 | 1 | 09/02/2020 20:38 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.9 | | | 77.0-120 | | 09/02/2020 20:38 | WG1536987 |

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000483 | 0.00103 | 1 | 09/02/2020 13:53 | WG1536720 |
| Toluene | U | | 0.00134 | 0.00517 | 1 | 09/02/2020 13:53 | WG1536720 |
| Ethylbenzene | U | | 0.000762 | 0.00258 | 1 | 09/02/2020 13:53 | WG1536720 |
| Total Xylenes | U | | 0.000910 | 0.00672 | 1 | 09/02/2020 13:53 | WG1536720 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 13:53 | WG1536720 |
| (S) 4-Bromofluorobenzene | 91.9 | | | 67.0-138 | | 09/02/2020 13:53 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 95.4 | | | 70.0-130 | | 09/02/2020 13:53 | WG1536720 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.64 | 4.07 | 1 | 09/09/2020 05:37 | WG1539276 |
| C28-C40 Oil Range | 4.02 | BJ | 0.279 | 4.07 | 1 | 09/09/2020 05:37 | WG1539276 |
| (S) o-Terphenyl | 76.2 | | | 18.0-148 | | 09/09/2020 05:37 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 91.2 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 10.1 | 21.9 | 1 | 09/01/2020 07:41 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0238 | 0.110 | 1 | 09/02/2020 21:01 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.0 | | | 77.0-120 | | 09/02/2020 21:01 | WG1536987 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000557 | 0.00119 | 1 | 09/02/2020 14:13 | WG1536720 |
| Toluene | U | | 0.00155 | 0.00597 | 1 | 09/02/2020 14:13 | WG1536720 |
| Ethylbenzene | U | | 0.000879 | 0.00298 | 1 | 09/02/2020 14:13 | WG1536720 |
| Total Xylenes | U | | 0.00105 | 0.00775 | 1 | 09/02/2020 14:13 | WG1536720 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 14:13 | WG1536720 |
| (S) 4-Bromofluorobenzene | 95.1 | | | 67.0-138 | | 09/02/2020 14:13 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 | | 09/02/2020 14:13 | WG1536720 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.77 | 4.39 | 1 | 09/09/2020 05:50 | WG1539276 |
| C28-C40 Oil Range | 2.89 | BJ | 0.300 | 4.39 | 1 | 09/09/2020 05:50 | WG1539276 |
| (S) o-Terphenyl | 74.1 | | | 18.0-148 | | 09/09/2020 05:50 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 94.1 | | 1 | 09/06/2020 21:35 | WG1538144 |

1 Cp

2 Tc

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 | 84.7 | | 9.77 | 21.2 | 1 | 09/01/2020 07:52 | WG1535327 |

3 Ss

4 Cn

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 | | 0.0231 | 0.106 | 1 | 09/02/2020 21:24 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.3 | | | 77.0-120 | | 09/02/2020 21:24 | WG1536987 |

5 Sr

6 Qc

7 Gl

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 | | 0.000525 | 0.00112 | 1 | 09/02/2020 14:32 | WG1536720 |
| Toluene | U | | 0.00146 | 0.00562 | 1 | 09/02/2020 14:32 | WG1536720 |
| Ethylbenzene | U | | 0.000829 | 0.00281 | 1 | 09/02/2020 14:32 | WG1536720 |
| Total Xylenes | U | | 0.000990 | 0.00731 | 1 | 09/02/2020 14:32 | WG1536720 |
| (S) Toluene-d8 | 106 | | | 75.0-131 | | 09/02/2020 14:32 | WG1536720 |
| (S) 4-Bromofluorobenzene | 94.8 | | | 67.0-138 | | 09/02/2020 14:32 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 100 | | | 70.0-130 | | 09/02/2020 14:32 | WG1536720 |

8 Al

9 Sc

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 | 4.25 | 1 | 09/09/2020 06:02 | WG1539276 |
| C28-C40 Oil Range | 2.15 | BJ | 0.291 | 4.25 | 1 | 09/09/2020 06:02 | WG1539276 |
| (S) o-Terphenyl | 80.2 | | | 18.0-148 | | 09/09/2020 06:02 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.3 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | 38.4 | | 9.46 | 20.6 | 1 | 09/01/2020 08:04 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0223 | 0.103 | 1 | 09/02/2020 22:52 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.4 | | | 77.0-120 | | 09/02/2020 22:52 | WG1536987 |

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 | 09/02/2020 14:51 | WG1536720 |
| Toluene | U | | 0.00137 | 0.00528 | 1 | 09/02/2020 14:51 | WG1536720 |
| Ethylbenzene | U | | 0.000779 | 0.00264 | 1 | 09/02/2020 14:51 | WG1536720 |
| Total Xylenes | U | | 0.000930 | 0.00687 | 1 | 09/02/2020 14:51 | WG1536720 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 14:51 | WG1536720 |
| (S) 4-Bromofluorobenzene | 95.1 | | | 67.0-138 | | 09/02/2020 14:51 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/02/2020 14:51 | WG1536720 |

- 8 Al
- 9 Sc

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 | 4.11 | 1 | 09/09/2020 06:15 | WG1539276 |
| C28-C40 Oil Range | 1.50 | <u>BJ</u> | 0.282 | 4.11 | 1 | 09/09/2020 06:15 | WG1539276 |
| (S) o-Terphenyl | 73.6 | | | 18.0-148 | | 09/09/2020 06:15 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 99.6 | | 1 | 09/06/2020 21:35 | WG1538144 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | 10.2 | J | 9.24 | 20.1 | 1 | 09/01/2020 08:26 | WG1535327 |

- 5 Sr
- 6 Qc
- 7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0218 | 0.100 | 1 | 09/02/2020 23:15 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8 | | | 77.0-120 | | 09/02/2020 23:15 | WG1536987 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000471 | 0.00101 | 1 | 09/02/2020 15:10 | WG1536720 |
| Toluene | U | | 0.00131 | 0.00504 | 1 | 09/02/2020 15:10 | WG1536720 |
| Ethylbenzene | U | | 0.000743 | 0.00252 | 1 | 09/02/2020 15:10 | WG1536720 |
| Total Xylenes | U | | 0.000887 | 0.00655 | 1 | 09/02/2020 15:10 | WG1536720 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 15:10 | WG1536720 |
| (S) 4-Bromofluorobenzene | 93.2 | | | 67.0-138 | | 09/02/2020 15:10 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 99.5 | | | 70.0-130 | | 09/02/2020 15:10 | WG1536720 |

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 5.84 | | 1.62 | 4.02 | 1 | 09/09/2020 10:57 | WG1539276 |
| C28-C40 Oil Range | 24.1 | | 0.275 | 4.02 | 1 | 09/09/2020 10:57 | WG1539276 |
| (S) o-Terphenyl | 65.2 | | | 18.0-148 | | 09/09/2020 10:57 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.2 | | 1 | 09/06/2020 21:07 | WG1538145 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.57 | 20.8 | 1 | 09/01/2020 00:24 | WG1535329 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0226 | 0.104 | 1 | 09/02/2020 23:38 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5 | | | 77.0-120 | | 09/02/2020 23:38 | WG1536987 |

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 | | 0.000504 | 0.00108 | 1 | 09/02/2020 15:29 | WG1536720 |
| Toluene | U | | 0.00140 | 0.00540 | 1 | 09/02/2020 15:29 | WG1536720 |
| Ethylbenzene | U | | 0.000796 | 0.00270 | 1 | 09/02/2020 15:29 | WG1536720 |
| Total Xylenes | U | | 0.000950 | 0.00702 | 1 | 09/02/2020 15:29 | WG1536720 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 15:29 | WG1536720 |
| (S) 4-Bromofluorobenzene | 92.8 | | | 67.0-138 | | 09/02/2020 15:29 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 09/02/2020 15:29 | WG1536720 |

- 8 Al
- 9 Sc

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 | 1.81 | <u>J</u> | 1.67 | 4.16 | 1 | 09/09/2020 06:27 | WG1539276 |
| C28-C40 Oil Range | 7.65 | <u>B</u> | 0.285 | 4.16 | 1 | 09/09/2020 06:27 | WG1539276 |
| (S) o-Terphenyl | 63.3 | | | 18.0-148 | | 09/09/2020 06:27 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 95.1 | | 1 | 09/06/2020 21:07 | WG1538145 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.68 | 21.0 | 1 | 09/01/2020 01:01 | WG1535329 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | 09/03/2020 00:01 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.8 | | | 77.0-120 | | 09/03/2020 00:01 | WG1536987 |

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 | | 0.000516 | 0.00110 | 1 | 09/02/2020 15:48 | WG1536720 |
| Toluene | U | | 0.00144 | 0.00552 | 1 | 09/02/2020 15:48 | WG1536720 |
| Ethylbenzene | U | | 0.000814 | 0.00276 | 1 | 09/02/2020 15:48 | WG1536720 |
| Total Xylenes | U | | 0.000972 | 0.00718 | 1 | 09/02/2020 15:48 | WG1536720 |
| (S) Toluene-d8 | 104 | | | 75.0-131 | | 09/02/2020 15:48 | WG1536720 |
| (S) 4-Bromofluorobenzene | 95.3 | | | 67.0-138 | | 09/02/2020 15:48 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 09/02/2020 15:48 | WG1536720 |

- 8 Al
- 9 Sc

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 | 4.21 | 1 | 09/09/2020 06:40 | WG1539276 |
| C28-C40 Oil Range | 1.65 | <u>BJ</u> | 0.288 | 4.21 | 1 | 09/09/2020 06:40 | WG1539276 |
| (S) o-Terphenyl | 66.8 | | | 18.0-148 | | 09/09/2020 06:40 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 98.1 | | 1 | 09/06/2020 21:07 | WG1538145 |

1 Cp

2 Tc

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.38 | 20.4 | 1 | 09/01/2020 01:19 | WG1535329 |

3 Ss

4 Cn

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0221 | 0.102 | 1 | 09/03/2020 00:24 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.3 | | | 77.0-120 | | 09/03/2020 00:24 | WG1536987 |

5 Sr

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000485 | 0.00104 | 1 | 09/02/2020 16:07 | WG1536720 |
| Toluene | U | | 0.00135 | 0.00520 | 1 | 09/02/2020 16:07 | WG1536720 |
| Ethylbenzene | U | | 0.000766 | 0.00260 | 1 | 09/02/2020 16:07 | WG1536720 |
| Total Xylenes | U | | 0.000914 | 0.00675 | 1 | 09/02/2020 16:07 | WG1536720 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 09/02/2020 16:07 | WG1536720 |
| (S) 4-Bromofluorobenzene | 91.9 | | | 67.0-138 | | 09/02/2020 16:07 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 09/02/2020 16:07 | WG1536720 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | 21.0 | | 1.64 | 4.08 | 1 | 09/09/2020 08:48 | WG1539276 |
| C28-C40 Oil Range | 105 | | 0.279 | 4.08 | 1 | 09/09/2020 08:48 | WG1539276 |
| (S) o-Terphenyl | 55.8 | | | 18.0-148 | | 09/09/2020 08:48 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| Total Solids | 99.2 | | 1 | 09/06/2020 21:07 | WG1538145 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Chloride | U | | 9.27 | 20.2 | 1 | 09/01/2020 01:37 | WG1535329 |

5 Sr

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| TPH (GC/FID) Low Fraction | U | | 0.0219 | 0.101 | 1 | 09/03/2020 00:47 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5 | | | 77.0-120 | | 09/03/2020 00:47 | WG1536987 |

6 Qc

7 Gl

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| Benzene | U | | 0.000474 | 0.00102 | 1 | 09/02/2020 16:26 | WG1536720 |
| Toluene | U | | 0.00132 | 0.00508 | 1 | 09/02/2020 16:26 | WG1536720 |
| Ethylbenzene | U | | 0.000748 | 0.00254 | 1 | 09/02/2020 16:26 | WG1536720 |
| Total Xylenes | U | | 0.000894 | 0.00660 | 1 | 09/02/2020 16:26 | WG1536720 |
| (S) Toluene-d8 | 105 | | | 75.0-131 | | 09/02/2020 16:26 | WG1536720 |
| (S) 4-Bromofluorobenzene | 91.5 | | | 67.0-138 | | 09/02/2020 16:26 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 100 | | | 70.0-130 | | 09/02/2020 16:26 | WG1536720 |

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
| C10-C28 Diesel Range | U | | 1.62 | 4.03 | 1 | 09/09/2020 06:53 | WG1539276 |
| C28-C40 Oil Range | 2.52 | <u>BJ</u> | 0.276 | 4.03 | 1 | 09/09/2020 06:53 | WG1539276 |
| (S) o-Terphenyl | 76.0 | | | 18.0-148 | | 09/09/2020 06:53 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.3 | | 1 | 09/06/2020 21:07 | WG1538145 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.65 | 21.0 | 1 | 09/01/2020 03:10 | WG1535329 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0228 | 0.105 | 1 | 09/03/2020 01:10 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.3 | | | 77.0-120 | | 09/03/2020 01:10 | WG1536987 |

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 | | 0.000513 | 0.00110 | 1 | 09/02/2020 16:45 | WG1536720 |
| Toluene | U | | 0.00143 | 0.00549 | 1 | 09/02/2020 16:45 | WG1536720 |
| Ethylbenzene | U | | 0.000809 | 0.00275 | 1 | 09/02/2020 16:45 | WG1536720 |
| Total Xylenes | U | | 0.000966 | 0.00714 | 1 | 09/02/2020 16:45 | WG1536720 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 09/02/2020 16:45 | WG1536720 |
| (S) 4-Bromofluorobenzene | 93.2 | | | 67.0-138 | | 09/02/2020 16:45 | WG1536720 |
| (S) 1,2-Dichloroethane-d4 | 100 | | | 70.0-130 | | 09/02/2020 16:45 | WG1536720 |

- 8 Al
- 9 Sc

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 | | 1.69 | 4.20 | 1 | 09/09/2020 07:31 | WG1539276 |
| C28-C40 Oil Range | 6.09 | <u>B</u> | 0.287 | 4.20 | 1 | 09/09/2020 07:31 | WG1539276 |
| (S) o-Terphenyl | 76.7 | | | 18.0-148 | | 09/09/2020 07:31 | WG1539276 |

Collected date/time: 08/27/20 00:00

L1256203

Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|---------------------------|
| | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 09/06/2020 21:07 | WG1538145 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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 | | 9.77 | 21.2 | 1 | 09/01/2020 03:28 | WG1535329 |

- 5 Sr
- 6 Qc
- 7 Gl

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 | | 0.0230 | 0.106 | 1 | 09/03/2020 01:33 | WG1536987 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.6 | | | 77.0-120 | | 09/03/2020 01:33 | WG1536987 |

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 | | 0.000525 | 0.00112 | 1 | 09/03/2020 06:33 | WG1537203 |
| Toluene | U | | 0.00146 | 0.00562 | 1 | 09/03/2020 06:33 | WG1537203 |
| Ethylbenzene | U | | 0.000829 | 0.00281 | 1 | 09/03/2020 06:33 | WG1537203 |
| Total Xylenes | U | | 0.000989 | 0.00731 | 1 | 09/03/2020 06:33 | WG1537203 |
| (S) Toluene-d8 | 100 | | | 75.0-131 | | 09/03/2020 06:33 | WG1537203 |
| (S) 4-Bromofluorobenzene | 94.6 | | | 67.0-138 | | 09/03/2020 06:33 | WG1537203 |
| (S) 1,2-Dichloroethane-d4 | 90.8 | | | 70.0-130 | | 09/03/2020 06:33 | WG1537203 |

- 8 Al
- 9 Sc

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 | 4.25 | 1 | 09/09/2020 07:44 | WG1539276 |
| C28-C40 Oil Range | 2.64 | <u>BJ</u> | 0.291 | 4.25 | 1 | 09/09/2020 07:44 | WG1539276 |
| (S) o-Terphenyl | 67.5 | | | 18.0-148 | | 09/09/2020 07:44 | WG1539276 |

Total Solids by Method 2540 G-2011

[L1256203-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3568424-1 09/05/20 22:55

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

1 Cp

2 Tc

3 Ss

L1256203-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-09 09/05/20 22:55 • (DUP) R3568424-3 09/05/20 22:55

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| | % | % | | % | | % |
| Total Solids | 97.1 | 96.4 | 1 | 0.678 | | 10 |

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3568424-2 09/05/20 22:55

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

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

[L1256203-11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3568176-1 09/06/20 23:54

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1256203-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-20 09/06/20 23:54 • (DUP) R3568176-3 09/06/20 23:54

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| | % | % | | % | | % |
| Total Solids | 95.5 | 95.3 | 1 | 0.175 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R3568176-2 09/06/20 23:54

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

Total Solids by Method 2540 G-2011

[L1256203-21,22,23,24,25,26,27,28,29,30](#)

Method Blank (MB)

(MB) R3568447-1 09/06/20 22:54

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1256203-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-23 09/06/20 22:54 • (DUP) R3568447-3 09/06/20 22:54

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| | % | % | | % | | % |
| Total Solids | 94.4 | 94.3 | 1 | 0.158 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R3568447-2 09/06/20 22:54

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

Total Solids by Method 2540 G-2011

[L1256203-31,32,33,34,35,36,37,38,39,40](#)

Method Blank (MB)

(MB) R3568446-1 09/06/20 21:35

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1256203-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-33 09/06/20 21:35 • (DUP) R3568446-3 09/06/20 21:35

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| | % | % | | % | | % |
| Total Solids | 96.1 | 95.9 | 1 | 0.218 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R3568446-2 09/06/20 21:35

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

Total Solids by Method 2540 G-2011

[L1256203-41,42,43,44,45,46](#)

Method Blank (MB)

(MB) R3568445-1 09/06/20 21:07

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1256203-43 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-43 09/06/20 21:07 • (DUP) R3568445-3 09/06/20 21:07

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| | % | % | | % | | % |
| Total Solids | 98.1 | 97.9 | 1 | 0.186 | | 10 |

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3568445-2 09/06/20 21:07

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

Wet Chemistry by Method 300.0

[L1256203-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3566033-1 08/31/20 23:10

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1256203-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-01 09/01/20 00:07 • (DUP) R3566033-3 09/01/20 00:24

| Analyte | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Chloride | 929 | 918 | 1 | 1.14 | | 20 |

L1256203-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-17 09/01/20 07:10 • (DUP) R3566033-6 09/01/20 07:28

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

Laboratory Control Sample (LCS)

(LCS) R3566033-2 08/31/20 23:29

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 200 | 210 | 105 | 90.0-110 | |

L1256203-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-06 09/01/20 01:57 • (MS) R3566033-4 09/01/20 02:15 • (MSD) R3566033-5 09/01/20 03:10

| Analyte | 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 |
|----------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Chloride | 515 | 80.8 | 585 | 592 | 97.8 | 99.2 | 1 | 80.0-120 | | | 1.26 | 20 |

Wet Chemistry by Method 300.0

L1256203-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Method Blank (MB)

(MB) R3566173-1 09/01/20 02:27

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1256203-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-21 09/01/20 03:04 • (DUP) R3566173-3 09/01/20 03:16

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

L1256203-39 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-39 09/01/20 08:04 • (DUP) R3566173-6 09/01/20 08:16

| Analyte | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Chloride | 38.4 | 36.7 | 1 | 4.66 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3566173-2 09/01/20 02:39

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 200 | 200 | 100 | 90.0-110 | |

L1256203-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-27 09/01/20 04:27 • (MS) R3566173-4 09/01/20 05:04 • (MSD) R3566173-5 09/01/20 05:16

| Analyte | 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 |
|----------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Chloride | 526 | 41.1 | 559 | 546 | 98.5 | 96.0 | 1 | 80.0-120 | | | 2.29 | 20 |

Wet Chemistry by Method 300.0

L1256203-41,42,43,44,45,46

Method Blank (MB)

(MB) R3565928-1 08/31/20 20:43

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1256203-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1256203-41 09/01/20 00:24 • (DUP) R3565928-3 09/01/20 00:42

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

L1256291-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1256291-06 09/01/20 06:26 • (DUP) R3565928-6 09/01/20 06:42

| Analyte | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Chloride | 46.6 | 48.7 | 1 | 4.33 | | 20 |

Laboratory Control Sample (LCS)

(LCS) R3565928-2 08/31/20 21:11

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Chloride | 200 | 201 | 101 | 90.0-110 | |

L1256203-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-44 09/01/20 01:37 • (MS) R3565928-4 09/01/20 02:33 • (MSD) R3565928-5 09/01/20 02:51

| Analyte | 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 |
|----------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Chloride | 504 | U | 517 | 506 | 103 | 100 | 1 | 80.0-120 | | | 2.24 | 20 |

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

L1256203-01,02,03,04,05,06

Method Blank (MB)

(MB) R3567079-2 09/02/20 05:36

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|--------|----------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 91.0 | | | 77.0-120 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3567079-1 09/02/20 04:42

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.58 | 101 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 106 | 77.0-120 | |

L1256203-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-01 09/02/20 11:19 • (MS) R3567079-3 09/02/20 13:23 • (MSD) R3567079-4 09/02/20 13:44

| Analyte | 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 |
|------------------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TPH (GC/FID) Low Fraction | 5.55 | 0.0259 | 5.09 | 5.08 | 91.2 | 89.2 | 1 | 10.0-151 | | | 0.203 | 28 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 98.8 | 97.8 | | 77.0-120 | | | | |

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

[L1256203-07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3566670-2 09/02/20 14:14

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 106 | | | 77.0-120 |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3566670-3 09/02/20 15:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.17 | 94.0 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 99.3 | 77.0-120 | |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1256203-15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32](#)

Method Blank (MB)

(MB) R3566744-2 09/02/20 11:18

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|--------|----------|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.1 | | | 77.0-120 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3566744-1 09/02/20 10:33

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.91 | 107 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 102 | 77.0-120 | |

L1256203-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-16 09/02/20 13:23 • (MS) R3566744-3 09/02/20 20:08 • (MSD) R3566744-4 09/02/20 20:30

| Analyte | 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 |
|------------------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| TPH (GC/FID) Low Fraction | 5.40 | U | 2.60 | 2.61 | 48.1 | 49.2 | 1 | 10.0-151 | | | 0.385 | 28 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 94.4 | 95.6 | | 77.0-120 | | | | |

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

[L1256203-33,34,35,36,37,38,39,40,41,42,43,44,45,46](#)

Method Blank (MB)

(MB) R3567727-2 09/02/20 18:43

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|------------------------------------|-----------|--------------|--------|----------|
| TPH (GC/FID) Low Fraction | 0.0408 | ↓ | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 97.3 | | | 77.0-120 |

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3567727-1 09/02/20 17:49

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.32 | 96.7 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 105 | 77.0-120 | |

5 Sr

6 Qc

7 Gl

L1256212-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256212-17 09/03/20 03:50 • (MS) R3567727-3 09/03/20 04:13 • (MSD) R3567727-4 09/03/20 04:36

| Analyte | 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 |
|------------------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| TPH (GC/FID) Low Fraction | 6.55 | U | 1.95 | 2.34 | 29.8 | 36.2 | 1 | 10.0-151 | | | 18.3 | 28 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 97.3 | 98.2 | | 77.0-120 | | | | |

8 Al

9 Sc

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

[L1256203-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3566859-2 09/02/20 08:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL 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 | 105 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 95.4 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 86.0 | | | 70.0-130 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3566859-1 09/02/20 07:39

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene | 0.125 | 0.124 | 99.2 | 70.0-123 | |
| Ethylbenzene | 0.125 | 0.124 | 99.2 | 74.0-126 | |
| Toluene | 0.125 | 0.122 | 97.6 | 75.0-121 | |
| Xylenes, Total | 0.375 | 0.379 | 101 | 72.0-127 | |
| (S) Toluene-d8 | | | 97.8 | 75.0-131 | |
| (S) 4-Bromofluorobenzene | | | 102 | 67.0-138 | |
| (S) 1,2-Dichloroethane-d4 | | | 97.9 | 70.0-130 | |

6 Qc

7 Gl

8 Al

9 Sc

L1256173-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256173-33 09/02/20 09:10 • (MS) R3566859-3 09/02/20 15:30 • (MSD) R3566859-4 09/02/20 15:49

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 0.124 | U | 0.101 | 0.0752 | 81.5 | 60.6 | 1 | 10.0-149 | | | 29.3 | 37 |
| Ethylbenzene | 0.124 | 0.000742 | 0.106 | 0.0774 | 84.9 | 61.8 | 1 | 10.0-160 | | | 31.2 | 38 |
| Toluene | 0.124 | U | 0.110 | 0.0803 | 88.7 | 64.8 | 1 | 10.0-156 | | | 31.2 | 38 |
| Xylenes, Total | 0.372 | 0.00646 | 0.306 | 0.240 | 80.5 | 62.8 | 1 | 10.0-160 | | | 24.2 | 38 |
| (S) Toluene-d8 | | | | | 104 | 104 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 94.4 | 95.7 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 97.9 | 97.0 | | 70.0-130 | | | | |

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

[L1256203-09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28](#)

Method Blank (MB)

(MB) R3568203-3 09/02/20 06:54

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------|-----------|--------------|----------|----------|
| | mg/kg | | mg/kg | 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 | 99.8 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 110 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 108 | | | 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) R3568203-1 09/02/20 05:39 • (LCSD) R3568203-2 09/02/20 05:57

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % |
| Benzene | 0.125 | 0.123 | 0.120 | 98.4 | 96.0 | 70.0-123 | | | 2.47 | 20 |
| Ethylbenzene | 0.125 | 0.114 | 0.117 | 91.2 | 93.6 | 74.0-126 | | | 2.60 | 20 |
| Toluene | 0.125 | 0.111 | 0.112 | 88.8 | 89.6 | 75.0-121 | | | 0.897 | 20 |
| Xylenes, Total | 0.375 | 0.383 | 0.376 | 102 | 100 | 72.0-127 | | | 1.84 | 20 |
| (S) Toluene-d8 | | | | 98.3 | 98.5 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 106 | 107 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 111 | 113 | 70.0-130 | | | | |

L1256203-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-09 09/02/20 09:27 • (MS) R3568203-4 09/02/20 15:44 • (MSD) R3568203-5 09/02/20 16:03

| Analyte | 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 |
|---------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Benzene | 0.132 | U | 0.112 | 0.0974 | 84.8 | 73.5 | 1 | 10.0-149 | | | 14.2 | 37 |
| Ethylbenzene | 0.132 | U | 0.111 | 0.106 | 84.0 | 79.7 | 1 | 10.0-160 | | | 5.28 | 38 |
| Toluene | 0.132 | U | 0.107 | 0.102 | 80.8 | 77.0 | 1 | 10.0-156 | | | 4.76 | 38 |
| Xylenes, Total | 0.397 | U | 0.356 | 0.341 | 89.6 | 85.9 | 1 | 10.0-160 | | | 4.26 | 38 |
| (S) Toluene-d8 | | | | | 99.4 | 103 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 107 | 111 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 108 | 106 | | 70.0-130 | | | | |

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

L1256203-29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45

Method Blank (MB)

(MB) R3566717-2 09/02/20 09:05

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------|-----------|--------------|----------|----------|
| | mg/kg | | mg/kg | 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 | 106 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 93.8 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 96.2 | | | 70.0-130 |

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

(LCS) R3566717-1 09/02/20 07:49 • (LCSD) R3566717-3 09/02/20 09:34

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % |
| Benzene | 0.125 | 0.119 | 0.110 | 95.2 | 88.0 | 70.0-123 | | | 7.86 | 20 |
| Ethylbenzene | 0.125 | 0.125 | 0.117 | 100 | 93.6 | 74.0-126 | | | 6.61 | 20 |
| Toluene | 0.125 | 0.116 | 0.108 | 92.8 | 86.4 | 75.0-121 | | | 7.14 | 20 |
| Xylenes, Total | 0.375 | 0.361 | 0.346 | 96.3 | 92.3 | 72.0-127 | | | 4.24 | 20 |
| (S) Toluene-d8 | | | | 99.0 | 99.2 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 94.6 | 98.9 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 105 | 112 | 70.0-130 | | | | |

L1255221-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1255221-01 09/02/20 11:00 • (MS) R3566717-4 09/02/20 17:04 • (MSD) R3566717-5 09/02/20 17:23

| Analyte | 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 |
|---------------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Benzene | 0.151 | U | 0.139 | 0.136 | 91.6 | 90.1 | 1.05 | 10.0-149 | | | 1.68 | 37 |
| Ethylbenzene | 0.151 | U | 0.147 | 0.142 | 96.9 | 93.9 | 1.05 | 10.0-160 | | | 3.20 | 38 |
| Toluene | 0.151 | U | 0.140 | 0.143 | 92.4 | 94.7 | 1.05 | 10.0-156 | | | 2.45 | 38 |
| Xylenes, Total | 0.455 | U | 0.438 | 0.443 | 96.2 | 97.5 | 1.05 | 10.0-160 | | | 1.31 | 38 |
| (S) Toluene-d8 | | | | | 101 | 101 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 96.3 | 91.6 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 110 | 103 | | 70.0-130 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1256203-46](#)

Method Blank (MB)

(MB) R3566976-3 09/03/20 06:14

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------------|-----------|--------------|----------|----------|
| | mg/kg | | mg/kg | 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 | 97.8 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 97.6 | | | 70.0-130 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R3566976-1 09/03/20 04:59 • (LCSD) R3566976-2 09/03/20 05:18

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % |
| Benzene | 0.125 | 0.137 | 0.145 | 110 | 116 | 70.0-123 | | | 5.67 | 20 |
| Ethylbenzene | 0.125 | 0.124 | 0.123 | 99.2 | 98.4 | 74.0-126 | | | 0.810 | 20 |
| Toluene | 0.125 | 0.124 | 0.125 | 99.2 | 100 | 75.0-121 | | | 0.803 | 20 |
| Xylenes, Total | 0.375 | 0.391 | 0.382 | 104 | 102 | 72.0-127 | | | 2.33 | 20 |
| (S) Toluene-d8 | | | | 97.8 | 93.2 | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | 106 | 98.7 | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | 102 | 105 | 70.0-130 | | | | |

6 Qc

7 Gl

8 Al

9 Sc

L1257278-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1257278-15 09/03/20 11:17 • (MS) R3566976-4 09/03/20 11:36 • (MSD) R3566976-5 09/03/20 11:55

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Benzene | 0.125 | 0.104 | 0.394 | 0.462 | 232 | 286 | 1 | 10.0-149 | J5 | J5 | 15.9 | 37 |
| Ethylbenzene | 0.125 | 0.0359 | 0.172 | 0.202 | 109 | 133 | 1 | 10.0-160 | | | 16.0 | 38 |
| Toluene | 0.125 | 0.192 | 0.589 | 0.643 | 318 | 361 | 1 | 10.0-156 | J5 | J5 | 8.77 | 38 |
| Xylenes, Total | 0.375 | 0.147 | 0.604 | 0.689 | 122 | 145 | 1 | 10.0-160 | | | 13.1 | 38 |
| (S) Toluene-d8 | | | | | 103 | 103 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 98.8 | 99.4 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 74.1 | 78.5 | | 70.0-130 | | | | |

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1256203-01,02,03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3568754-1 09/09/20 13:17

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------|-----------|--------------|--------|----------|
| | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | 1.94 | J | 0.274 | 4.00 |
| (S) o-Terphenyl | 85.0 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3568754-2 09/09/20 13:29

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------|--------------|------------|----------|-------------|---------------|
| | mg/kg | mg/kg | % | % | |
| C10-C28 Diesel Range | 50.0 | 42.6 | 85.2 | 50.0-150 | |
| (S) o-Terphenyl | | | 69.2 | 18.0-148 | |

L1256203-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-01 09/09/20 13:42 • (MS) R3568754-3 09/09/20 13:55 • (MSD) R3568754-4 09/09/20 14:07

| Analyte | 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 |
|----------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| C10-C28 Diesel Range | 51.3 | U | 45.1 | 42.9 | 88.0 | 83.5 | 1 | 50.0-150 | | | 5.15 | 20 |
| (S) o-Terphenyl | | | | | 66.0 | 64.2 | | 18.0-148 | | | | |

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

[L1256203-13,14,15,16,17,18,19,20,21,22,23,25,26,27,28,29,30,31,32](#)

Method Blank (MB)

(MB) R3568296-1 09/08/20 17:34

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 72.4 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3568296-2 09/08/20 17:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0 | 38.5 | 77.0 | 50.0-150 | |
| (S) o-Terphenyl | | | 64.7 | 18.0-148 | |

L1256203-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-18 09/08/20 21:11 • (MS) R3568296-3 09/08/20 21:23 • (MSD) R3568296-4 09/08/20 21:36

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 49.6 | 3.75 | 46.7 | 44.0 | 86.5 | 81.1 | 1 | 50.0-150 | | | 6.01 | 20 |
| (S) o-Terphenyl | | | | | 54.7 | 54.1 | | 18.0-148 | | | | |

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

[L1256203-33,34,35,36,37,38,39,40,41,42,43,44,45,46](#)

Method Blank (MB)

(MB) R3568336-1 09/09/20 03:43

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------|-----------|--------------|--------|----------|
| | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | 1.08 | J | 0.274 | 4.00 |
| (S) o-Terphenyl | 80.2 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3568336-2 09/09/20 03:55

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------|--------------|------------|----------|-------------|---------------|
| | mg/kg | mg/kg | % | % | |
| C10-C28 Diesel Range | 50.0 | 41.1 | 82.2 | 50.0-150 | |
| (S) o-Terphenyl | | | 62.8 | 18.0-148 | |

L1256203-44 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1256203-44 09/09/20 06:53 • (MS) R3568336-3 09/09/20 07:06 • (MSD) R3568336-4 09/09/20 07:18

| Analyte | 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 |
|----------------------|--------------------|-----------------------|-----------------|------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| C10-C28 Diesel Range | 49.3 | U | 33.9 | 33.5 | 68.7 | 67.9 | 1 | 50.0-150 | | | 1.20 | 20 |
| (S) o-Terphenyl | | | | | 50.2 | 49.1 | | 18.0-148 | | | | |

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

[L1256203-24](#)

Method Blank (MB)

(MB) R3569226-1 09/11/20 01:34

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------|-----------|--------------|--------|----------|
| | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 89.9 | | | 18.0-148 |

Laboratory Control Sample (LCS)

(LCS) R3569226-2 09/11/20 01:47

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------------|--------------|------------|----------|-------------|---------------|
| | mg/kg | mg/kg | % | % | |
| C10-C28 Diesel Range | 50.0 | 42.2 | 84.4 | 50.0-150 | |
| (S) o-Terphenyl | | | 26.0 | 18.0-148 | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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 |
|-----------|--|
| B | The same analyte is found in the associated blank. |
| 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. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 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.

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

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 ¹ | n/a |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 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 ^{1,6} | 90010 | South Carolina | 84004 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana ¹ | LA180010 | Texas | T104704245-18-15 |
| Maine | TN0002 | Texas ⁵ | 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 |

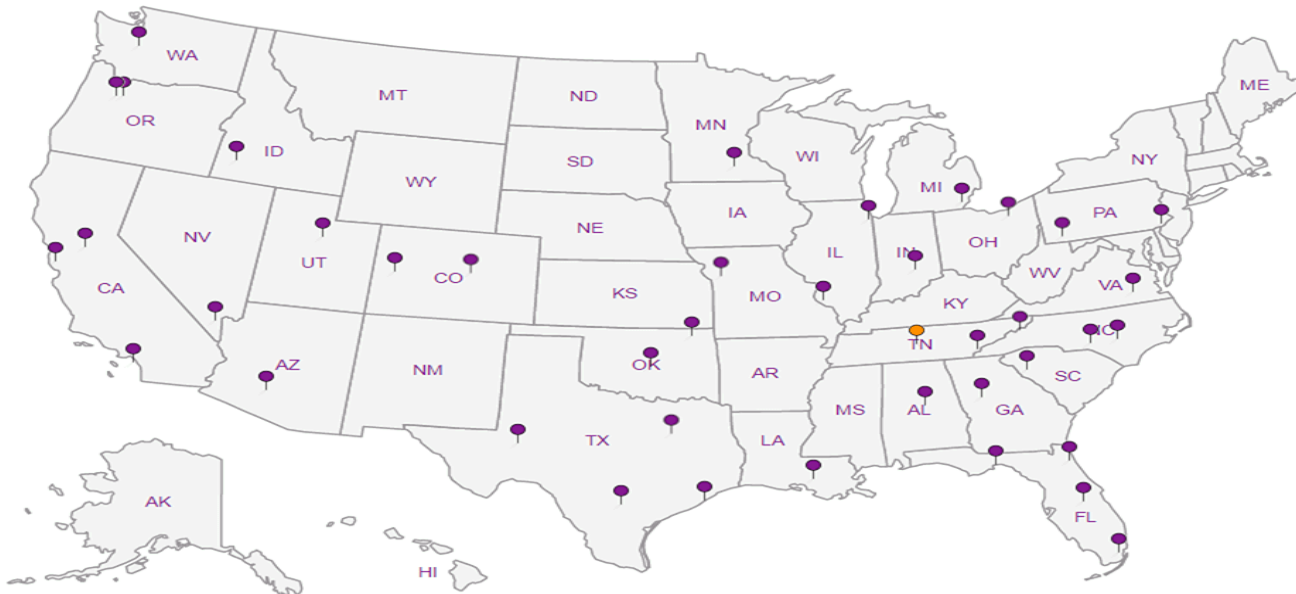
Third Party Federal Accreditations

| | | | |
|-------------------------------|---------|--------------------|---------------|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA-Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.





Tetra Tech, Inc.

901 West Wall Street, Suite 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

D079

| | |
|---|---|
| Client Name: Conoco Phillips | Site Manager: Christian Llull |
| Project Name: SEMU Permian #31 2198150 1202 | Contact Info: Email: christian.llull@tetrattech.com Phone: (512) 338-1667 |
| Project Location: (county, state) Lea County, New Mexico | Project #: 212C-MD-02103 |
| Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 | |
| Receiving Laboratory: Pace Analytical | Sampler Signature: John Thurston |

ANALYSIS REQUEST (Circle or Specify Method No.)

Comments: COPTETRA Acctnum

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | | | # CONTAINERS | FILTERED (Y/N) | 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 | | |
|-------------------------|-----------------------|------------|------|--------|-------|---------------------|-----|------------------|-----|--------------|----------------|--|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|------|--|
| | | YEAR: 2020 | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | | | | | | | | | | | | | | | | | | | | | | NONE | |
| | BH-1 (0-1) | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-1 (2-3) | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-1 (4-5) | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-1 (6-7) | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-1 (9-10) | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-2 (0-1') | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-2 (2-3') | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| 01 | BH-2 (4-5') | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-2 (6-7') | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |
| | BH-2 (9-10') | 8/27/2020 | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | X | | | | | |


| | | | | | |
|-------------------------------------|---------------|-------------|---------------------------------|---------------|-------------|
| Relinquished by: <i>[Signature]</i> | Date: 8/28/20 | Time: 1345 | Received by: <i>[Signature]</i> | Date: 8/28/20 | Time: 13:45 |
| Relinquished by: <i>[Signature]</i> | Date: 8/28/20 | Time: 17:00 | Received by: <i>[Signature]</i> | Date: 8/28/20 | Time: 17:00 |
| Relinquished by: <i>[Signature]</i> | Date: 8-29-20 | Time: 10:00 | Received by: <i>[Signature]</i> | Date: 8-29-20 | Time: 10:00 |

| | |
|---------------------|---|
| LAB USE ONLY | <input checked="" type="checkbox"/> Standard |
| | <input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr. |
| | <input type="checkbox"/> Rush Charges Authorized |
| | <input type="checkbox"/> Special Report Limits or TRRP Report |
| Sample Temperature | |

ORIGINAL COPY
 1.5 ± 0 = 1.5 ^{NO} _{AN}

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

| | | |
|--|--|---|
|  | <h1 style="margin: 0;">Tetra Tech, Inc.</h1> | 901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946 |
| Client Name: Conoco Phillips | Site Manager: Christian Llull | ANALYSIS REQUEST (Circle or Specify Method No.) |
| Project Name: SEMU Permian #31 | Contact Info: Email: christian.llull@tetrattech.com Phone: (512) 338-1667 | |
| Project Location: Lea County, New Mexico | Project #: 212C-MD-02103 | |
| Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| Receiving Laboratory: Pace Analytical | Sampler Signature: John Thurston | |
| Comments: COPTETRA Acctnum | | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | | | # CONTAINERS | FILTERED (Y/N) | METHODS | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|------------|------|--------|------|---------------------|------------------|-----|------|--------------|----------------|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|--|--|---|---|
| | | YEAR: 2020 | | WATER | SOIL | HCL | HNO ₃ | ICE | NONE | | | 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 | | | | |
| | | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | BH-7 (0-1') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | | X |
| 13 | BH-7 (2-3') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 14 | BH-7 (4-5') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 15 | BH-8 (0-1') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 16 | BH-8 (2-3') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 17 | BH-8 (4-5') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 18 | BH-9 (0-1') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 19 | BH-9 (2-3') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 20 | BH-9 (4-5') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |
| 21 | BH-9 (6-7') | 8/27/2020 | | X | | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | | X | |

| | | | | | | |
|-------------------------------------|---------------|-------------|---------------------------------|---------------|-------------|--|
| Relinquished by: <i>[Signature]</i> | Date: 8/28/20 | Time: 13:45 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 13:45 | LAB USE ONLY REMARKS: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr. <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report |
| Relinquished by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | |
| Relinquished by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | |

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(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____



Tetra Tech, Inc.

901 West Wall Street, Suite 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: Conoco Phillips Site Manager: Christian Llull

Project Name: SEMU Permian #31 Contact Info: Email: christian.llull@tetrattech.com
 Phone: (512) 338-1667

Project Location: Lea County, New Mexico Project #: 212C-MD-02103

Invoice to: Accounts Payable
 901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical Sampler Signature: John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
 (Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | | | # CONTAINERS | FILTERED (Y/N) | ANALYSIS REQUEST (Circle or Specify Method No.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|------------|------|--------|-------|---------------------|-----|------------------|-----|--------------|----------------|---|-----------------------|-------------------------|------------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|---|---|---|--|--|
| | | YEAR: 2020 | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | | | NONE | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M (GRO - DFO - 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 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | BH-9 (9-10') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | | X | | |
| | BH-10 (0-1') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | X | | | |
| | BH-10 (2-3') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | X | | | |
| | BH-10 (4-5') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | X | | | |
| | BH-10 (6-7') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | X | | | |
| | BH-10 (9-10') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | X | | | | |

Relinquished by: [Signature] Date: 8/28/20 Time: 13:45
 Received by: [Signature] Date: 8/28/20 Time: 13:45

Relinquished by: [Signature] Date: 8/28/20 Time: 17:00
 Received by: [Signature] Date: 8/28/20 Time: 17:00

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature _____

REMARKS:

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

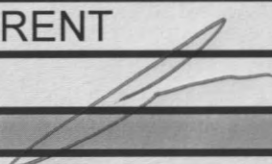
Special Report Limits or TRRP Report

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8-28-20 1000
 1.5±0 = 1.5 kg AT

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

| Client: | Coltetra | 1256203 | | |
|---------------------------------|--|------------------|-----|----|
| Cooler Received/Opened On: | 8 / 29 / 20 | Temperature: 1.5 | | |
| Received By: | JOEY BRENT | | | |
| 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? | | | | |

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Suite 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: Conoco Phillips
Site Manager: Christian Llull
Contact Info: Email: christian.llull@tetratech.com
 Phone: (512) 338-1667
Project Name: SEMU Permian #31
Project #: 212C-MD-02103
Project Location: Lea County, New Mexico
Invoice to: Accounts Payable
 901 West Wall Street, Suite 100 Midland, Texas 79701
Receiving Laboratory: Pace Analytical
Sampler Signature: John Thurston

ANALYSIS REQUEST (Circle or Specify Method No.)

| | | | | | | | | | | | | | | | | | | | | | |
|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|-----------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|--|
| 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 | PCBs 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD | |
| | | | | | | | | | | | | | | | | | | | | | |

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | | # CONTAINERS | FILTERED (Y/N) |
|-------------------------|-----------------------|------------|------|--------|------|---------------------|------------------|-----|--------------|----------------|
| | | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | | |
| | | YEAR: 2020 | | | | | | | | |
| 09 | BH-4 (4-5) | 8/27/2020 | | X | | | | X | 1 | N |
| 10 | BH-4 (6-7) | 8/27/2020 | | X | | | | X | 1 | N |
| 11 | BH-4 (9-10') | 8/27/2020 | | X | | | | X | 1 | N |
| -35 | BH-5 (0-1') | 8/27/2020 | | X | | | | X | 1 | N |
| -36 | BH-5 (2-3') | 8/27/2020 | | X | | | | X | 1 | N |
| -37 | BH-5 (4-5') | 8/27/2020 | | X | | | | X | 1 | N |
| -38 | BH-5 (6-7') | 8/27/2020 | | X | | | | X | 1 | N |
| -39 | BH-5 (9-10') | 8/27/2020 | | X | | | | X | 1 | N |
| -40 | BH-6 (0-1') | 8/27/2020 | | X | | | | X | 1 | N |
| -41 | BH-6 (2-3') | 8/27/2020 | | X | | | | X | 1 | N |

Relinquished by: [Signature] Date: 8/28/20 Time: 13:45
Received by: [Signature] Date: 8/28/20 Time: 13:45
Relinquished by: [Signature] Date: 8/28/20 Time: 17:00
Received by: [Signature] Date: 8/28/20 Time: 17:00
Relinquished by: [Signature] Date: 8-28-20 Time: 10:00
Received by: [Signature] Date: 8-28-20 Time: 10:00

LAB USE ONLY

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: _____

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY
 1.5 ± 0.15 kg

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

| | |
|---|--|
| Client Name: Conoco Phillips | Site Manager: Christian Llull |
| Project Name: SEMU Permian #31 | Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667 |
| Project Location: (county, state) Lea County, New Mexico | Project #: 212C-MD-02103 |
| Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 | |
| Receiving Laboratory: Pace Analytical | Sampler Signature: John Thurston |
| Comments: COPTETRA Acctnum | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| | | | | | | | | | | | | | | | | | | | | |
|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|
| BTEX 8021B | BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M (GRO - DRO - ORD - MFO) | 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 8092 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |
|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | YEAR: 2020 | MATRIX | | PRESERVATIVE METHOD | | | | # CONTAINERS | FILTERED (Y/N) | | | | | | | | | |
|-------------------------|-----------------------|-----------|------|------------|--------|------|---------------------|------------------|-----|------|--------------|----------------|---|---|--|--|--|--|--|--|---|
| | | DATE | TIME | | WATER | SOIL | HCL | HNO ₃ | ICE | NONE | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 12 | BH-7 (0-1') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 13 | BH-7 (2-3') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 14 | BH-7 (4-5') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 15 | BH-8 (0-1') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 16 | BH-8 (2-3') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 17 | BH-8 (4-5') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 18 | BH-9 (0-1') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 19 | BH-9 (2-3') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 20 | BH-9 (4-5') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |
| 21 | BH-9 (6-7') | 8/27/2020 | | | X | | | X | | | 1 | N | X | X | | | | | | | X |

| | | | | | |
|-------------------------------------|---------------|-------------|---------------------------------|---------------|-------------|
| Relinquished by: <i>[Signature]</i> | Date: 8/28/20 | Time: 1345 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 13:45 |
| Relinquished by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 |
| Relinquished by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 | Received by: <i>[Signature]</i> | Date: 8.28.20 | Time: 17:00 |

LAB USE ONLY

REMARKS:

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

| | |
|---|---|
| <b style="font-size: 24px; margin-left: 10px;">Tetra Tech, Inc. | 901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946 |
|---|---|

| | |
|--|--|
| Client Name: Conoco Phillips Project Name: SEMU Permian #31 Project Location: Lea County, New Mexico Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701 Receiving Laboratory: Pace Analytical | Site Manager: Christian Lull Contact Info: Email: christian.lull@tetratech.com Phone: (512) 338-1667 Project #: 212C-MD-02103 Sampler Signature: John Thurston |
|--|--|

ANALYSIS REQUEST
(Circle or Specify Method No.)

| | | | | | | | | | | | | | | | | | | | |
|------------|------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|
| BTEX 8021B | BTEX 8260B | TPH 8015M (GRD - 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) | Anton/Cation Balance | TPH 8015R | HOLD |
|------------|------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---|----------------------|-----------|------|

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | BTEX 8260B <th rowspan="3">TPH 8015M (GRD - DRO - ORO - MRO) <th rowspan="3">PAH 8270C <th rowspan="3">Total Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th> | TPH 8015M (GRD - DRO - ORO - MRO) <th rowspan="3">PAH 8270C <th rowspan="3">Total Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th></th> | PAH 8270C <th rowspan="3">Total Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th></th></th></th> | Total Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th></th></th> | TCLP Metals Ag As Ba Cd Cr Pb Se Hg <th rowspan="3">TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th></th> | TCLP Volatiles <th rowspan="3">TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th></th> | TCLP Semi Volatiles <th rowspan="3">RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th></th> | RCI <th rowspan="3">GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th></th> | GC/MS Vol. 8260B / 624 <th rowspan="3">GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th></th> | GC/MS Semi. Vol. 8270C/625 <th rowspan="3">PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th></th> | PCB's 8082 / 608 <th rowspan="3">NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th></th> | NORM <th rowspan="3">PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th></th> | PLM (Asbestos) <th rowspan="3">Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th></th> | Chloride 300.0 <th rowspan="3">Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th></th> | Chloride Sulfate TDS <th rowspan="3">General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th></th> | General Water Chemistry (see attached list) <th rowspan="3">Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th></th> | Anton/Cation Balance <th rowspan="3">TPH 8015R <th rowspan="3">HOLD</th> </th> | TPH 8015R <th rowspan="3">HOLD</th> | HOLD | | | |
|-------------------------|-----------------------|------------|------|--------|------|---------------------|------------------|-----|------|--------------|----------------|------------|--|--|---|--|--|---|---|--|---|---|---|---|---|---|---|---|--|-------------------------------------|------|---|---|--|
| | | YEAR: 2020 | | WATER | SOIL | HCL | HNO ₃ | ICE | NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | BH-9 (9-10') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | | X | |
| -42 | BH-10 (0-1') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | | X | | |
| -43 | BH-10 (2-3') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | X | | | |
| -44 | BH-10 (4-5') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | X | | | |
| -45 | BH-10 (6-7') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | X | | | |
| -46 | BH-10 (9-10') | 8/27/2020 | | | X | | | X | | 1 | N | X | X | | | | | | | | | | | | | | | | | | X | | | |

| | |
|--|--|
| Relinquished by: <i>[Signature]</i> Date: 8/28/20 Time: 13:45 | Received by: <i>[Signature]</i> Date: 8/28/20 Time: 13:45 |
| Relinquished by: <i>[Signature]</i> Date: 8/28/20 Time: 17:00 | Received by: <i>[Signature]</i> Date: 8/28/20 Time: 17:00 |
| Relinquished by: <i>[Signature]</i> Date: 8-28-20 Time: 10:00 | Received by: <i>[Signature]</i> Date: 8-28-20 Time: 10:00 |

| | |
|------------------------------------|--|
| LAB USE ONLY Sample Temperature | REMARKS: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr. <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report |
|------------------------------------|--|

ORIGINAL COPY 1.5±0=1.5 kg AT

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____



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

November 02, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEMU PERMIAN 31

Enclosed are the results of analyses for samples received by the laboratory on 11/01/23 16:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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 "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: SW-1 (H236006-01)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 11/02/2023 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 11/01/2023 | ND | 175 | 87.5 | 200 | 0.722 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/01/2023 | ND | 147 | 73.4 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/01/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: SW-2 (H236006-02)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 11/02/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| 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 | 11/01/2023 | ND | 175 | 87.5 | 200 | 0.722 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/01/2023 | ND | 147 | 73.4 | 200 | 4.96 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/01/2023 | ND | | | | | | |

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: SW-3 (H236006-03)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 11/02/2023 | ND | 432 | 108 | 400 | 3.77 | | |

| 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 | 11/01/2023 | ND | 175 | 87.5 | 200 | 0.722 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/01/2023 | ND | 147 | 73.4 | 200 | 4.96 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/01/2023 | ND | | | | | | |

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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*=Accredited Analyte

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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: SW-4 (H236006-04)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 11/02/2023 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 11/01/2023 | ND | 175 | 87.5 | 200 | 0.722 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/01/2023 | ND | 147 | 73.4 | 200 | 4.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/01/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: BH-1 (4.0') (H236006-05)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 11/02/2023 | ND | 384 | 96.0 | 400 | 11.8 | | |

| 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 | 11/02/2023 | ND | 175 | 87.5 | 200 | 0.722 | | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/02/2023 | ND | 147 | 73.4 | 200 | 4.96 | | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/02/2023 | ND | | | | | | |

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: BH-2 (4.0') (H236006-06)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/02/2023 | ND | 384 | 96.0 | 400 | 11.8 | |

| 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 | 11/02/2023 | ND | 192 | 96.0 | 200 | 7.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/02/2023 | ND | 184 | 91.8 | 200 | 6.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/02/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Received: | 11/01/2023 | Sampling Date: | 11/01/2023 |
| Reported: | 11/02/2023 | Sampling Type: | Soil |
| Project Name: | SEMU PERMIAN 31 | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03271 | Sample Received By: | Tamara Oldaker |
| Project Location: | COG -LEA CO NM | | |

Sample ID: BH-3 (4.0') (H236006-07)

| BTEX 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.09 | 104 | 2.00 | 5.93 | |
| Toluene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.02 | 101 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/02/2023 | ND | 2.12 | 106 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 11/02/2023 | ND | 6.33 | 106 | 6.00 | 2.92 | |
| Total BTEX | <0.300 | 0.300 | 11/02/2023 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/02/2023 | ND | 384 | 96.0 | 400 | 11.8 | |

| 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 | 11/02/2023 | ND | 192 | 96.0 | 200 | 7.53 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/02/2023 | ND | 184 | 91.8 | 200 | 6.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/02/2023 | ND | | | | | |

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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
Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **Maverick Natural Resources** Site Manager: **Chuck Terhune**

Project Name: **SEMU Permian 31** Project #: **281-755-8965**

Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**

Invoice to: **Attn: Chuck Terhune** Project #: **212C-MD-03271**

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

Comments:

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | | | PRESERVATIVE METHOD | | # CONTAINERS | FILTERED (Y/N) |
|-------------------------|-----------------------|-----------|------|--------|------|-----|------------------|---------------------|--|--------------|----------------|
| | | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | | | |
| 1 | SW-1 | 11/1/2023 | | X | | | | X | | | |
| 2 | SW-2 | 11/1/2023 | | X | | | | X | | | |
| 3 | SW-3 | 11/1/2023 | | X | | | | X | | | |
| 4 | SW-4 | 11/1/2023 | | X | | | | X | | | |
| 5 | BH-1 (4.0') | 11/1/2023 | | X | | | | X | | | |
| 6 | BH-2 (4.0') | 11/1/2023 | | X | | | | X | | | |
| 7 | BH-3 (4.0') | 11/1/2023 | | X | | | | X | | | |

LAB USE ONLY

Sample Temperature: 2.1°C

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # #140

ANALYSIS REQUEST (Circle or Specify Method No.)

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

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ORIGINAL COPY

ATTACHMENT 5: PHOTOGRAPHIC DOCUMENTATION

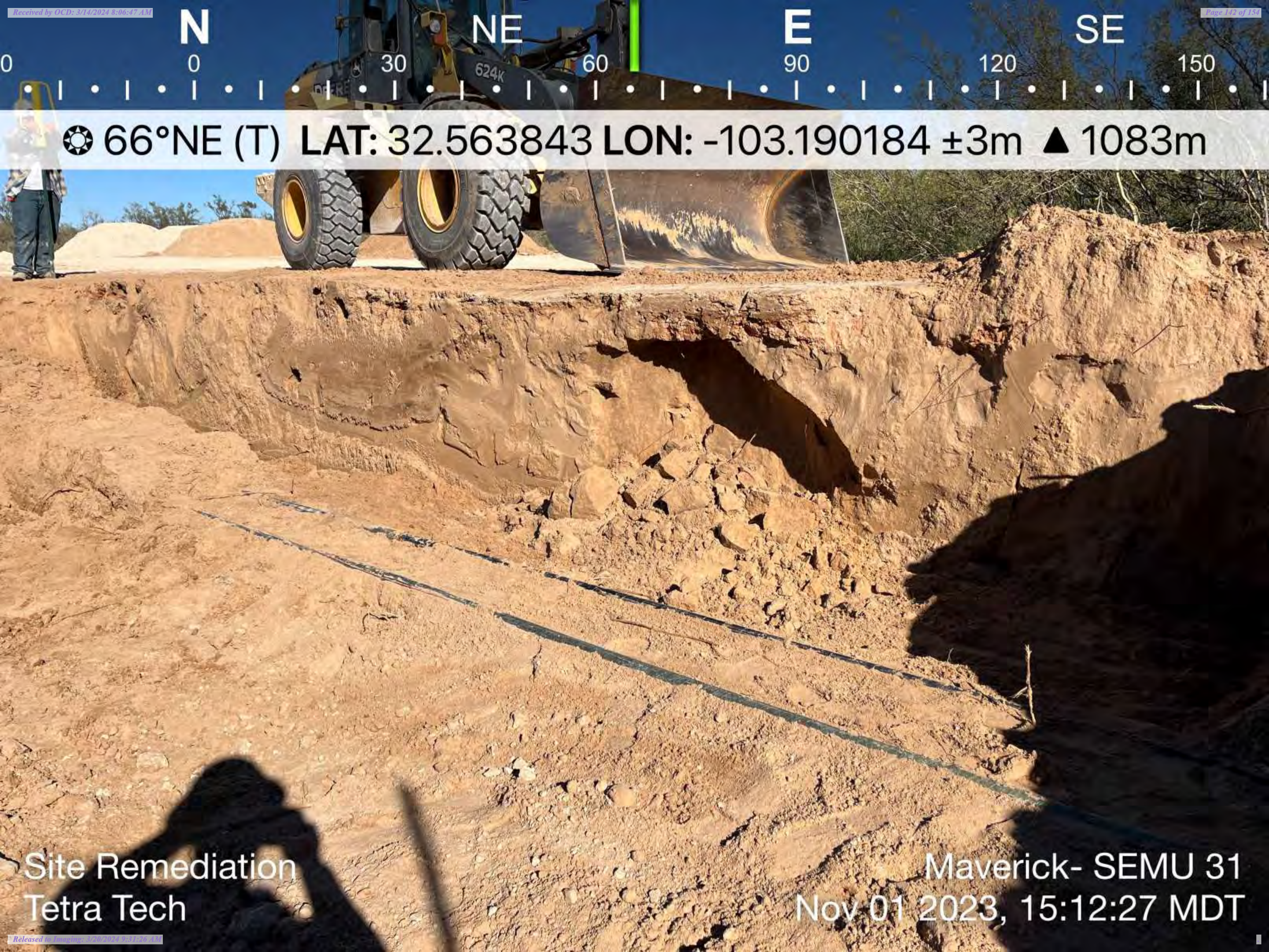


☀ 169°S (T) **LAT: 32.563873 LON: -103.190168 ±4m ▲ 1082m**



Site Remediation
Tetra Tech

Maverick- SEMU 31
Nov 01 2023, 15:12:11 MDT



N

NE

E

SE

0 0 30 60 90 120 150

☉ 66°NE (T) LAT: 32.563843 LON: -103.190184 ±3m ▲ 1083m

Site Remediation
Tetra Tech

Maverick- SEMU 31
Nov 01 2023, 15:12:27 MDT



☀ 360°N (T) LAT: 32.563846 LON: -103.190176 ±4m ▲ 1082m



Site Remediation
Tetra Tech

Maverick- SEMU 31
Nov 01 2023, 15:13:15 MDT



☉ 268°W (T) LAT: 32.563872 LON: -103.190138 ±4m ▲ 1082m



Site Remediation
Tetra Tech

Maverick- SEMU 31
Nov 01 2023, 15:13:25 MDT



☀ 28°NE (T) LAT: 32.563791 LON: -103.190188 ±3m ▲ 1084m



Site Remediation
Tetra Tech

Maverick-SEMU 31
Nov 07 2023, 15:15:25 MST



☀ 109°E (T) LAT: 32.563956 LON: -103.190245 ±4m ▲ 1084m



Site Remediation
Tetra Tech

Maverick-SEMU 31
Nov 07 2023, 15:15:46 MST

District I
 1625 N. French Dr., Hobbs, NM 88240
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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 323129

QUESTIONS

| | |
|--|---|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 323129 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

| | |
|----------------------|---|
| Prerequisites | |
| Incident ID (n#) | nPAC0535052112 |
| Incident Name | NPAC0535052112 SEMU PERMIAN #031 @ 30-025-07817 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Closure Report Received |
| Incident Well | [30-025-07817] SEMU PERMIAN #031 |

| | |
|---|-------------------|
| Location of Release Source | |
| <i>Please answer all the questions in this group.</i> | |
| Site Name | SEMU PERMIAN #031 |
| Date Release Discovered | 11/29/2005 |
| Surface Owner | Federal |

| | |
|--|------------------------|
| Incident Details | |
| <i>Please answer all the questions in this group.</i> | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| | |
|---|---|
| Nature and Volume of Release | |
| <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i> | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Corrosion Pipeline (Any) Produced Water Released: 82 BBL Recovered: 60 BBL Lost: 22 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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QUESTIONS, Page 2

Action 323129

QUESTIONS (continued)

| | |
|--|--|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
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QUESTIONS

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|--|--|
| Nature and Volume of Release (continued) | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> | |

Initial Response

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

| | |
|--|----------------------|
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | <i>Not answered.</i> |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 03/14/2024 |
|--|--|

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QUESTIONS, Page 3

Action 323129

QUESTIONS (continued)

| | |
|--|--|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 323129 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs) | Between 51 and 75 (ft.) |
| What method was used to determine the depth to ground water | Direct Measurement |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Greater than 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1/2 and 1 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Greater than 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|--|-----|
| Requesting a remediation plan approval with this submission | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

| | |
|---|------|
| Chloride (EPA 300.0 or SM4500 Cl B) | 1550 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 4430 |
| GRO+DRO (EPA SW-846 Method 8015M) | 1390 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0.1 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0.1 |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

| | |
|---|------------|
| On what estimated date will the remediation commence | 10/27/2023 |
| On what date will (or did) the final sampling or liner inspection occur | 11/01/2023 |
| On what date will (or was) the remediation complete(d) | 11/07/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 0 |
| What is the estimated surface area (in square feet) that will be remediated | 500 |
| What is the estimated volume (in cubic yards) that will be remediated | 72 |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 323129

QUESTIONS (continued)

| | |
|--|--|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
| | Action Number: 323129 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

| | |
|---|--|
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. |
| (In Situ) Soil Vapor Extraction | Not answered. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. |
| OTHER (Non-listed remedial process) | Not answered. |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 03/14/2024 |
|--|--|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 323129

QUESTIONS (continued)

| | |
|--|---|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: 331199 |
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| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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QUESTIONS, Page 6

Action 323129

QUESTIONS (continued)

| | | |
|--|----------------|---|
| Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002 | OGRID: | 331199 |
| | Action Number: | 323129 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| | |
|---|-------------------|
| Sampling Event Information | |
| Last sampling notification (C-141N) recorded | 292132 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 11/01/2023 |
| What was the (estimated) number of samples that were to be gathered | 7 |
| What was the sampling surface area in square feet | 500 |

| | |
|--|---|
| Remediation Closure Request | |
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| Requesting a remediation closure approval with this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 500 |
| What was the total volume (cubic yards) remediated | 72 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 500 |
| What was the total volume (in cubic yards) reclaimed | 500 |
| Summarize any additional remediation activities not included by answers (above) | Site was constrained to on an active wellpad, excavation, disposal, and backfill to restore pad surface, revegetation will occur at end of life of the well pad during wellpad reclamation and revegetation.. |

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

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

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 03/14/2024 |
|--|--|

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QUESTIONS, Page 7

Action 323129

QUESTIONS (continued)

| | |
|--|---|
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| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|----|
| Reclamation Report | |
| <i>Only answer the questions in this group if all reclamation steps have been completed.</i> | |
| Requesting a reclamation approval with this submission | No |

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CONDITIONS

Action 323129

CONDITIONS

| | |
|--|--|
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| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| amaxwell | Remediation approved. | 3/20/2024 |
| amaxwell | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 3/20/2024 |