



August 16, 2024

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

**Re: Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Unit Letter K, Section 34, Township 17 South, Range 35 East  
Lea County, New Mexico  
Incident IDs: nRH2003532478 and nAPP2129936218**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips to assess two releases that occurred from the flowline associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 3440-002 well, located in Unit Letter K, Section 34, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The releases occurred at coordinates 32.7894821°, -103.4476547° and 32.789948°, -103.44811° as shown in **Figures 1 and 2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and contracted Tetra Tech to continue working on the site remediation. This Closure Report covers both incidents, which were remediated concurrently.

## **BACKGROUND**

### **January 2, 2020, Release (nRH2003532478)**

According to the State of New Mexico C-141 Initial Report, the **nRH2003532478** release was discovered on January 2, 2020. The release occurred as the result of a flowline leak causing a release of approximately 1.4 barrels (bbls) of crude oil and 53.7 bbls of produced water, of which 0 bbls of fluids were reported as recovered during the initial response activities. The release notification was received by the New Mexico Oil Conservation District (NMOCD) on January 1, 2020. The NMOCD assigned this release Incident Identification (ID) **nRH2003532478**. The approximate release extent is shown in **Figure 3A**.

### **October 12, 2021, Release (nAPP2129936218)**

According to the State of New Mexico C-141 Initial Report, the **nAPP2129936218** release was discovered on October 12, 2021. The release occurred as the result of flowline failure due to corrosion releasing approximately 7 barrels (bbls) of crude oil and 128 bbls of produced water, of which 0 bbls of fluids were reported as recovered during the initial response activities. The NMOCD received the release notification on October 26, 2021, and subsequently assigned the Site the Incident Identification (ID) **nAPP2129936218**. The approximate release extent is shown in **Figure 3B**.

**Tetra Tech, Inc.**

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## SITE CHARACTERIZATION

Tetra Tech performed a Site characterization that included the identification of sensitive receptors, a depth to groundwater determination, and assessment of site soils. Site Characterization data are included in **Attachment 1**.

### Receptors

Tetra Tech performed a site characterization and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, private domestic water wells, springs, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). According to the Bureau of Land Management (BLM) the Site is in an area of low karst potential.

A playa lake wetland characterized as a 3.42 acre Palustrine Unconsolidated Bottom Semipermanently Flooded Excavated (PUBFx) is mapped southwest of the Site by the United States Department of Agricultural National Wetlands Inventory. This wetland is however not mapped on the New Mexico State Land Office Land Status map or the NMOCD Oil and Gas Map previously relied upon for Site Characterization. The identified wetland along with a 300-foot buffer is shown in **Figures 6 and 7**.

### Depth to Groundwater

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are 8 wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 60 feet below ground surface (bgs). Additionally, Basin Environmental advanced a depth-to-water boring to a depth of 50 feet on February 11, 2016. The boring was located at 32.787554°, -103.449746°, approximately 800 feet south of the Site. The depth to water boring did not identify any groundwater in the upper 50 feet.

### Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam soil.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 New Mexico Administrative Code (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 chlorides in soil.

Based on the site characterization including a wetland within 300 feet of the release location, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for areas of the Site are as follows:

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### Reclamation Requirements

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

## INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

### Initial Site Assessment and Analytical Results

An initial site assessment was conducted by Tetra Tech on behalf of COP in 2020 when Tetra Tech personnel collected soil samples within and around the release extent to delineate the vertical and horizontal extent of the release. In October 2021, prior to the submittal of a Release Characterization and Remediation Work Plan report to the NMOCD, a subsequent release (Incident ID nAPP2129936218) occurred that coincided with the January 2020 release footprint. Thus, the laboratory analytical results associated with the August and September 2020 soil assessments were no longer applicable in characterizing the existing contamination. Therefore, an additional site assessment was conducted following the October 2021 release to characterize the two overlapping areas.

### Initial Response and Remedial Activities

In accordance with 19.15.29.8. B. (4) NMAC “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in early 2020. Two sections of the release footprint were excavated by COP subcontractor, McNabb Partners, with heavy equipment to approximately 1 foot bgs in the eastern portion and 2 to 3 feet bgs in the western portion to remove the visually impacted soils. Approximately 256 cubic yards of contaminated material were removed and transported to an NMOCD-approved facility.

In response to the October 2021 release, McNabb removed approximately 6 inches of visually impacted material from the entire release footprint, where accessible. Approximately 218 cubic yards of material were removed and properly disposed of. Approximate release extent and initial response extents are shown in **Figures 3A** and **3B**.

### Additional Site Assessment

In order to achieve horizontal and vertical delineation of the **nRH2003532478** release extent, Tetra Tech personnel completed 17 soil borings (BH-22-01 through BH-22-17) on February 16 and 17, 2022, and March 8, 2022, on behalf of COP. Site assessment locations are summarized in **Table 1** and shown in **Figures 3A** and **3B**.

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BH-22-01 through BH-22-06 were installed within the release footprint to delineate the vertical extent and BH-22-07 through BH-22-17 were installed around the perimeter of the release footprint to delineate the horizontal extent of the impacted soil. Boring logs are presented in **Attachment 2**.

A total of 55 soil samples were collected from the 17 boring locations and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for a combination of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0.

## Summary of Assessment and Characterization

During the additional assessment event in 2022, the analytical results associated with boring locations BH-22-01 through BH-22-08 were reported at concentrations greater than RRALs for TPH and/or chloride in soils to a depth of 3 feet below surrounding grade. All other analytical results were below reclamation requirements and RRALs in areas greater than 300 feet from the PUBFx wetland to the southeast of the release point.

For areas within 300 feet of the wetland, the following areas are impacted above Reclamation Requirements for chloride and/or TPH:

- BH-22-04 to a depth of 3 feet bgs;
- BH-22-05 to a depth of 5 feet bgs; and
- BH-22-06 to a depth of 7 feet bgs.

The horizontal extent of the release footprint was defined through air rotary borings. BH-22-07 and BH-22-16 bound the release to the west; BH-22-12 bounds the release to the east; BH-22-08, BH-22-09, BH-22-10, BH-22-11, and BH-22-17 bound the release to the north; and BH-22-13, BH-22-14 and BH-22-15 bound the release to the south. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

Analytical results from the sampling events demonstrate that both horizontal and vertical delineation was achieved during the February and March 2022 assessment activities. Soil assessment sampling laboratory analytical results screened against Reclamation Requirements are summarized in **Table 2**. Soil assessment laboratory analytical data packages including chain-of-custody documentation were previously submitted under Incident ID nAPP2129936218 from the NMOCD Permitting portal.

## REMEDIATION WORK PLANS AND NMOCD APPROVALS

Tetra Tech prepared the Release Characterization and Remediation Work Plans (Work Plans) for both releases on behalf of the former operator (ConocoPhillips). Maverick took over operations of the site from ConocoPhillips in June of 2022.

The Work Plan for incident **nRH2003532478** was submitted to NMOCD on July 14, 2021, and approved on November 8, 2021. A subsequent extension request was granted to June 30, 2022. However, just prior to the extension deadline, Maverick acquired the site. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 4A**.

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The Work Plan for incident **nAPP2129936218** was submitted to NMOCD on March 2, 2022, and approved on March 29, 2022. On behalf of Maverick, Tetra Tech requested an extension on June 21, 2022, but the Request was denied by the NMOCD on June 22, 2022. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 4B**.

## CULTURAL RESOURCES SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech contracted SWCA Environmental Consultants to perform a Class III Cultural Resources Survey for the remediation area under New Mexico Cultural Resources Investigation System (NMCRIS) Activity No. 152942. Mr. Jacob Borchardt of SWCA conducted the survey on May 15, 2023, which included an intensive pedestrian survey of the EVGSAU 3440-002 remediation site and immediate vicinity covering 5.87 acres, which included a 100-foot cultural resources buffer around the location.

No archaeological sites or historic properties were observed during the cultural resources investigation. No additional investigation or treatment was recommended regarding the undertaking. No subsurface cultural materials were encountered during remediation. The cover page from the Class III Cultural Resources Survey is included in **Attachment 3**.

## INITIAL REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the two releases and the approved remediation work plans, the areas of impact had significant overlap. Therefore, the remediation areas for both incidents were conducted as one field remediation project in accordance with the two NMOCD-approved remediation work plans. Excavation activities commenced on June 26, 2023, and concluded on August 23, 2023.

Excavation activities commenced on June 26, 2023, and concluded on August 8, 2023. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation area to depths of between 3.5 and 6.0 feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 6,835 cubic yards of contaminated soil with an approximate area of 24,500 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 4**. **Figure 5** depicts the areas and depths excavated during the.

## Confirmation Sampling

Upon reaching the final lateral and vertical and lateral extents of the excavation, Tetra Tech collected 44 confirmation samples, including 16 five-point composite floor samples and 28 five-point composite side wall samples from the excavated areas. The confirmation sample locations are shown in **Figure 5**. Collected confirmation samples submitted to Cardinal Laboratories in Hobbs, New Mexico under chain-

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of-custody documentation for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B.

Floor samples BH-8 (3.5') and sidewall samples SW-1, SW-3, SW-4, SW-5, SW-6, SW-7, SW-8, SW-10, SW-11, SW-13, SW-14, SW-15, SW-16, SW-17, SW-18, SW-20, and SW-21 reported concentrations of Chloride and/or TPH as greater than Reclamation requirements. Additional lateral and vertical excavation were undertaken at these locations prior to reaching the final limits of excavation and final confirmation samples were then taken which reported concentrations as less than Reclamation Requirements. In the case of floor sample BH-8 (3.5'), the excavation was extended from 3.5 feet bgs to 4.5 feet bgs. Likewise, when sidewall samples exceeded reclamation requirements, the excavation was extended laterally until reclamation requirements were achieved, and an additional sample was taken to confirm the results. In four locations, SW-3, SW-8, SW-17, and SW-18, it took two or more additional attempts at excavation and sampling.

Confirmation sample laboratory analytical results screened against Reclamation Requirements for confirmation soil samples are presented in **Tables 2 and 3** laboratory analytical data packages including chain of custody documentation are included in **Attachment 5**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

### **Excavation Backfill**

Between August 8 and August 11, 2023, subsequent to the receipt of final confirmation sampling results, McNabb completed backfilling of the excavated areas with 6,835 CY of clean topsoil obtained from the Seth Boyd Pit. Photographic Documentation showing the backfilled areas and final grading after backfilling is provided in **Attachment 4**.

### **Reclamation and Revegetation**

To restore the impacted surface areas to the condition that existed prior to the releases, backfilled and disturbed areas were graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and raked, into the soil in accordance with the specifications for broadcast application in pound pure live seed per acre specified in the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 6**.

### **NMOCD AND NMSLO CLOSURE REPORT REJECTION**

On October 26, 2023, Tetra Tech submitted the Remediation Report and Closure Request for the Site to the NMOCD demonstrating that remediation of the two incidents had been conducted in accordance with both of the previously submitted and NMOCD-approved site characterization and remediation work plans.

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On February 15, 2024, the NMOCD rejected the submitted report in conflict with the two NMOCD-approved remediation work plans. This section responds to NMOCD comments to provide clarification, further detail, and/or actions taken by Maverick where appropriate. To provide clarity, the NMOCD rejection comments are reiterated below along with Maverick's response.

***“Release must be remediated to the strictest Table I Closure Criteria for soils per 19.15.29.12(C)4 NMAC as site is within 200 feet of any lakebed, sinkhole or playa lake. Figures in report show the playa lake at the bottom right hand side. The National Wetlands Inventory lists this depression as a wetland, classified as PUBF.”***

COP previously relied upon the NMOCD Oil and Gas Map and NMSLO Land Status maps when conducting the Site Characterization. Neither of these state-published sources that contain probable playa lake data and waterbody data map this wetland. Maverick agrees that portions of the site are within 200 feet of a lakebed, sinkhole, or play lake, and within 300 feet of an NWI mapped wetland as discussed above in the revised Site Characterization, and that these portions of the Site should be remediated to the strictest Table I Closure Criteria.

***“Delineation borehole samples show chloride concentrations above the < 50 feet to ground water standards at depths of up to 20 feet bgs. In addition, excavation floor samples exceeded < 50 feet ground water standards. Remediation needs to occur to address these exceedances before closure can be approved.”***

Maverick agrees that delineation borehole samples show chloride concentrations above remediation standards for groundwater < 50 feet at depths of up to 20 feet bgs, at the following locations:

- BH-22-01 to a depth of 20 feet bgs;
- BH-22-02 to a depth of 10 feet bgs; and
- BH-22-03 to a depth of 10 feet bgs.

Based on the revised Site Characterization, Maverick identifies the following areas with Site assessment and soil confirmation sampling locations within 300 feet of the nearest edge of the wetland as requiring additional remediation:

#### **Western 4.0' Excavation**

The 4' excavation surrounding BH-22-01, BH22-02, BH22-08, and floor confirmation samples for this section of the remediation including BH-1, BH-2, BH-3, BH-5, and BH-6 demonstrate remaining chloride concentrations greater than 600 mg/kg between the base of the initial remediation excavation at 4.0 feet bgs and to at least 10.0 feet bgs with Soil assessment data not clearly demonstrative of actual regulatory exceedances down to 20 feet at one location, requiring additional assessment as discussed below.

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### **Western 3.5' Excavation**

The 3.5-foot excavation surrounding BH-22-03 reported chloride concentrations greater than reclamation requirements down to a depth of 10 feet bgs, therefore additional remediation excavation will be required down to approximately 10 feet bgs to address chloride from 6 to 10 feet bgs.

### **Eastern 5.0'**

The 5-foot excavation surrounding BH-22-06 and floor confirmation samples for this section of the remediation including BH-13, BH-14, BH-15, and BH-16 demonstrate remaining chloride concentrations greater than 600 mg/kg between the base of the initial remediation excavation at 5.0 feet bgs to 7.0 feet bgs that will require additional remediation.

### **Central 4.5' and 6.0' Excavations**

The central 4.5-foot and 6.0-foot excavations surrounding confirmation sample locations BH-8 and BH-9 include floor confirmation samples BH-8 and BH-9 that demonstrate remaining chloride concentrations greater than 600 mg/kg at the base of the excavations that will require additional remediation.

***“Per 19.15.29.12(D)1(a) NMAC, “The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling.” This has not been included.***

Tetra Tech and Maverick understand that failure to notify the NMOCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. Tetra Tech failed to notify the NMOCD of Initial Remediation sampling two business days in advance. Tetra Tech will perform sample notification in accordance with 19.15.29.12(D)1(a) NMAC in the future.

***Before collecting samples, a C-141N must be submitted via epermitting at least two business days prior to collecting samples or they will not be approved for closure.”***

Tetra Tech submitted the Remediation Report and Closure Request on October 26, 2023, prior to the implementation of the NMOCD implementation of the Digital C-141 and C-141N notification processes, therefore, it was not possible to submit a C-141N during the execution of the Initial Remediation activities described above.

Tetra Tech has retroactively submitted sampling notifications for previously collected remediation confirmation samples. Tetra Tech will adhere to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance for future sampling. Tetra Tech is currently submitting C-141N notifications two business days prior to conducting any remediation confirmation sampling.

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***“On page 4 of report, two other incident numbers are listed-nRM1930950727 and nAPP2117456525. This report is supposed to address nRH2003532478 and nAPP2129936218. Is there a reason for this reference? Submit new closure report to OCD by May 15, 2024.”***

The referenced incident numbers were incorrectly included in the initially submitted Remediation Report and Closure Request. Incident numbers have been corrected within this report.

## **ADDITIONAL REMEDIATION WORK PLAN**

Based on the revised site characterization and analytical results from the site assessment and initial remediation, Maverick proposes to conduct additional remediation activities to remove the remaining impacted soil at concentrations greater than Reclamation Requirements where positively demonstrated. Proposed additional remediation extents are shown in **Figure 6**.

### **Additional Excavation – Western and Central Excavations**

The Western 3.5' excavation, Central 4.5' and 6.0' excavations, and the Eastern 5.0' excavation described in detail above are proposed to be re-excavated to the Initial Remediation excavation depths of 3.5, 4.5, 6.0, and 5.0 feet bgs, respectively. The removed clean backfill will be stockpiled on site away from the excavations. Validation samples will be collected from the removed material at a frequency of one five-point composite sample per 100 cubic yards as directed by the NMOCD in the rejected Interim Remediation Report and Revised Additional Remediation Work Plan dated June 17, 2024, to ensure the material is suitable for re-use.

Soils at these locations with demonstrated constituents greater than Reclamation Requirements at soil assessment or initial remediation sampling locations will be excavated and disposed of. Upon reaching the final excavation depths, Maverick will collect 5-point composite confirmation samples on a 200-square-foot basis as directed by the NMOCD to demonstrate clean margins. Over-excavation will be conducted, as necessary, until confirmation sample results report constituents as less than Reclamation Requirements.

Excavated soils will be transported offsite and disposed of at R360 Halfway Disposal and Landfill in Hobbs, New Mexico. The estimated volume of material remaining in this area requiring remediation and reclamation is approximately 1,500 cubic yards.

### **Additional Site Assessment – Western 4.0' Excavation**

The Western 4.0' excavation is proposed to be the subject of additional soil sampling assessment to confirm and better define potential impacts previously reported at BH-22-01, BH-22-02, and BH-22-08. The chloride concentration reported in BH-22-01 from the 14-15 feet bgs sample reported a chloride concentration marginally above the reclamation requirement and the chloride concentration reported from the 19-20 feet bgs sample was flagged QM-07 by the laboratory for spike recovery reported outside of acceptance limits for the Method Spike and/or Method Spike Duplicate sample, therefore this datapoint is unreliable.

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Maverick proposes to mobilize a drill rig to the site and the Western 4.0' excavation area and 8 additional soil boring will be advanced within the area, three of which will be immediately adjacent to the BH-22-01, BH-22-02, and BH-22-08 locations. Borings will be advanced to 20 feet bgs and sampled at will be sampled at 6-7 foot, 9-10 foot, 12-13 foot, 14-15 foot, and 19-20 foot bgs intervals. Samples will be submitted to Cardinal Laboratory for the analysis of chloride and TPH.

### **Additional Excavation – Western 4.0' Excavation**

Subsequent to the Additional Site Assessment, the Western 4.0' excavation will be re-excavated down to 4.0 feet bgs and the removed clean backfill will be stockpiled. Validation samples will be collected from the removed material at a frequency of one five-point composite sample per 100 cubic yards, as directed by the NMOCD, to ensure the material is suitable for re-use.

The area will then be excavated deeper based on the Additional Site Assessment sampling results. Remaining soil with constituents greater than Reclamation Requirements will be excavated and disposed of. Upon reaching excavation depths informed by the Additional Site Assessment results, Maverick will collect 5-point composite confirmation samples on a 200-square-foot basis as directed by the NMOCD to demonstrate clean margins. Vertical and lateral over-excavation will be conducted, as necessary, until confirmation sample results report constituents as less than Reclamation Requirements. Excavated soils will be transported offsite and disposed of at R360 Halfway Disposal and Landfill in Hobbs, New Mexico. The estimated volume of material remaining in this area requiring remediation is to be determined based on the Additional Site Assessment.

### **Alternative Confirmation Sampling Plan**

In accordance with 19.15.29.12(D)(1)(b) NMAC, Maverick Proposes an alternative confirmation sampling plan to include five-point confirmation samples of the excavation bases and sidewalls at a density of one (1) sample per 200 square feet. Additionally, as Site assessment samples and Initial Remediation confirmation samples for the additional remediation depths indicate that assessment BTEX concentrations were only detected in materials already excavated and no BTEX was detected in any of the Interim Remediation confirmation samples, Maverick requests approval to submit Additional Remediation confirmation samples to Cardinal Laboratory for analysis of TPH and chloride only to verify remedial activities.

The NMOCD will be notified at least two business days in advance of Additional Remediation confirmation sampling in accordance with 19.15.29.12(D)(1)(a) NMAC via submission of a C-141N application in the NMOCD Permitting portal under the two incident numbers.

### **Excavation Backfill**

Subsequent to the receipt of analytical results demonstrating remediation has been completed the excavated areas will be backfilled. If validation samples report BTEX, chloride, and TPH concentrations as less than Reclamation requirements, then excavated clean backfill placed during the Initial Remediation will be used to backfill the excavations. If the validation sample results do not meet

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Reclamation requirements, the material will be disposed to R360 Halfway Landfill and Disposal in Hobbs, New Mexico. Required clean topsoil to backfill the excavation to the surface will be sourced from a nearby pit matching the site soil type at the Site identified above in the Site Characterization section.

**Reclamation and Revegetation**

To restore the impacted surface areas to the condition that existed prior to the releases, backfilled and disturbed areas will be graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site will be seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding will be broadcast and raked, harrowed, or disced into the soil in accordance with the specifications for broadcast application in pound pure live seed per acre specified in the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 6**.

**Schedule**

Upon NMOCD and NMSLO Additional Remediation Work Plan approval, Maverick will initiate remediation activities at the Site within 90 days anticipated to be November 30, 2024, and anticipates the Additional Site Assessment and remediation will take eight weeks to complete.

**CONCLUSIONS**

This Revised Additional Remediation Work Plan presents a strategy to complete remediation in the areas where impacted material remains beneath the previously remediated areas to address chloride impacts greater than reclamation requirements. If this is acceptable, upon completion of the proposed work, a final closure report comprehensively detailing all remediation activities and the results will be submitted to NMOCD for each release incident. If you have any questions concerning the remediation activities for the Site, please call me at (832) 252-2093.

Sincerely,



Chris Straub  
Project Manager  
Tetra Tech, Inc.



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

Cc:  
Mr. Bryce Wagoner – Maverick Natural Resources  
New Mexico State Land Office

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## LIST OF ATTACHMENTS

### Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3A – Approximate Release Extent and Initial Response (nRH2003532478)
- Figure 3B – Approximate Release Extent and Initial Response (nAPP2129936218)
- Figure 4A – Proposed Remediation Extent (nRH2003532478)
- Figure 4B – Proposed Remediation Extent (nAPP2129936218)
- Figure 5 – Initial Excavation Extents and Confirmation Sampling Locations
- Figure 6 – Proposed Additional Assessment and Remediation Extents

### Tables:

- Table 1 – Soil Assessment Locations
- Table 2 – Summary of Analytical Results – Initial & Additional Soil Assessment Samples
- Table 3 – Summary of Analytical Results – Interim Confirmation Samples
- Table 4 – Summary of Analytical Results – Confirmation Samples Requiring Additional Remediation

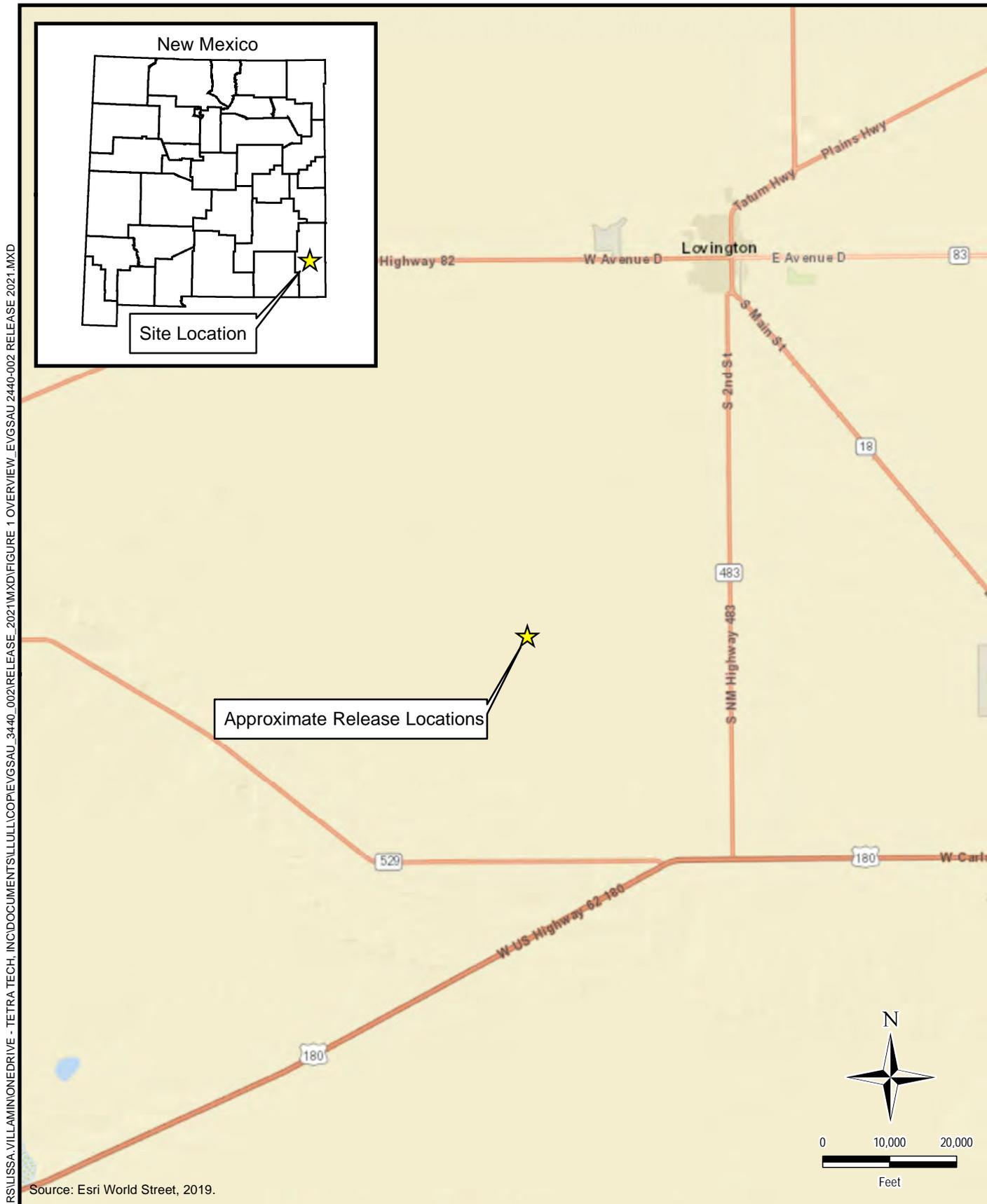
### Attachments:

- Attachment 1 – Site Characterization Data
- Attachment 2 – Borelogs
- Attachment 3 – Cultural Resources Survey Cover Page
- Attachment 4 – Photographic Documentation
- Attachment 5 – Laboratory Analytical Data
- Attachment 6 – NMSLO Seed Mixture Details

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Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONE\DRIVE - TETRA TECH\INC\DOCUMENTS\LLLLL\COPEVGS AU\_3440\_002\RELEASE\_2021\MXD\FIGURE 1 OVERVIEW\_EVGSAU 2440-002 RELEASE 2021.MXD

Source: Esri World Street, 2019.



www.tetrattech.com  
901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

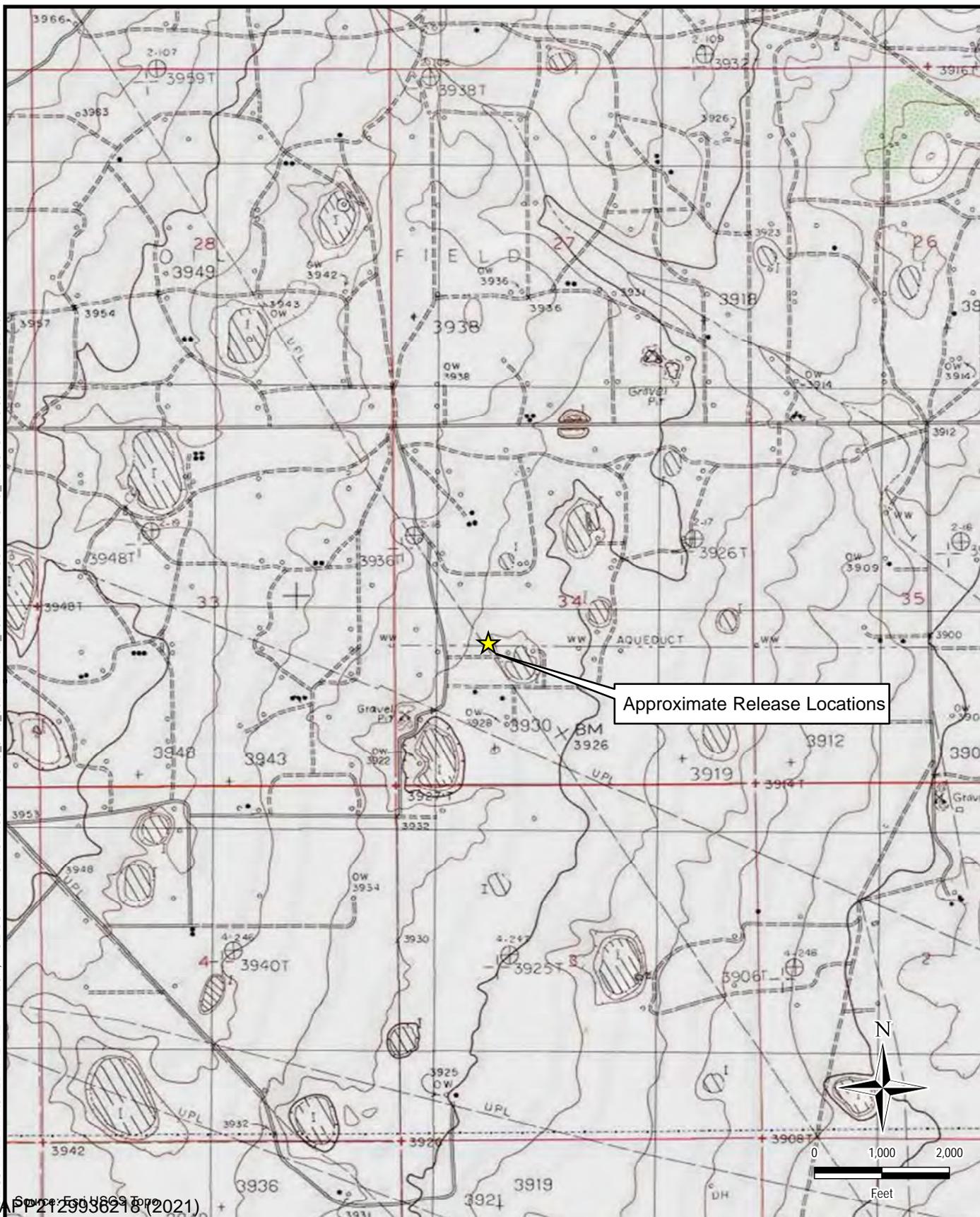
MAVERICK PERMIAN, LLC  
NRH2003532478 & NAPP2129936218  
(32.789749°, -103.449656°)  
LEA COUNTY, NEW MEXICO

EVGSAU 3440-002 RELEASES  
SITE LOCATION MAP

PROJECT NO.: 212C-HN-02255  
DATE: MARCH 14, 2022  
DESIGNED BY: LMV

Figure No.  
**1**

DOCUMENT PATH: C:\USER\LISSA.VILLAMINONEDRIVE - TETRA TECH, INC\DOCUMENTS\LUULLI\COPEVGSAU\_3440\_002\RELEASE - 2021\MXD\FIGURE 2 TOPO\_EVGSAU 2440-002 RELEASE 2021.MXD



Approximate Release Locations

0.22.kmz/NP2129936218 (2021)

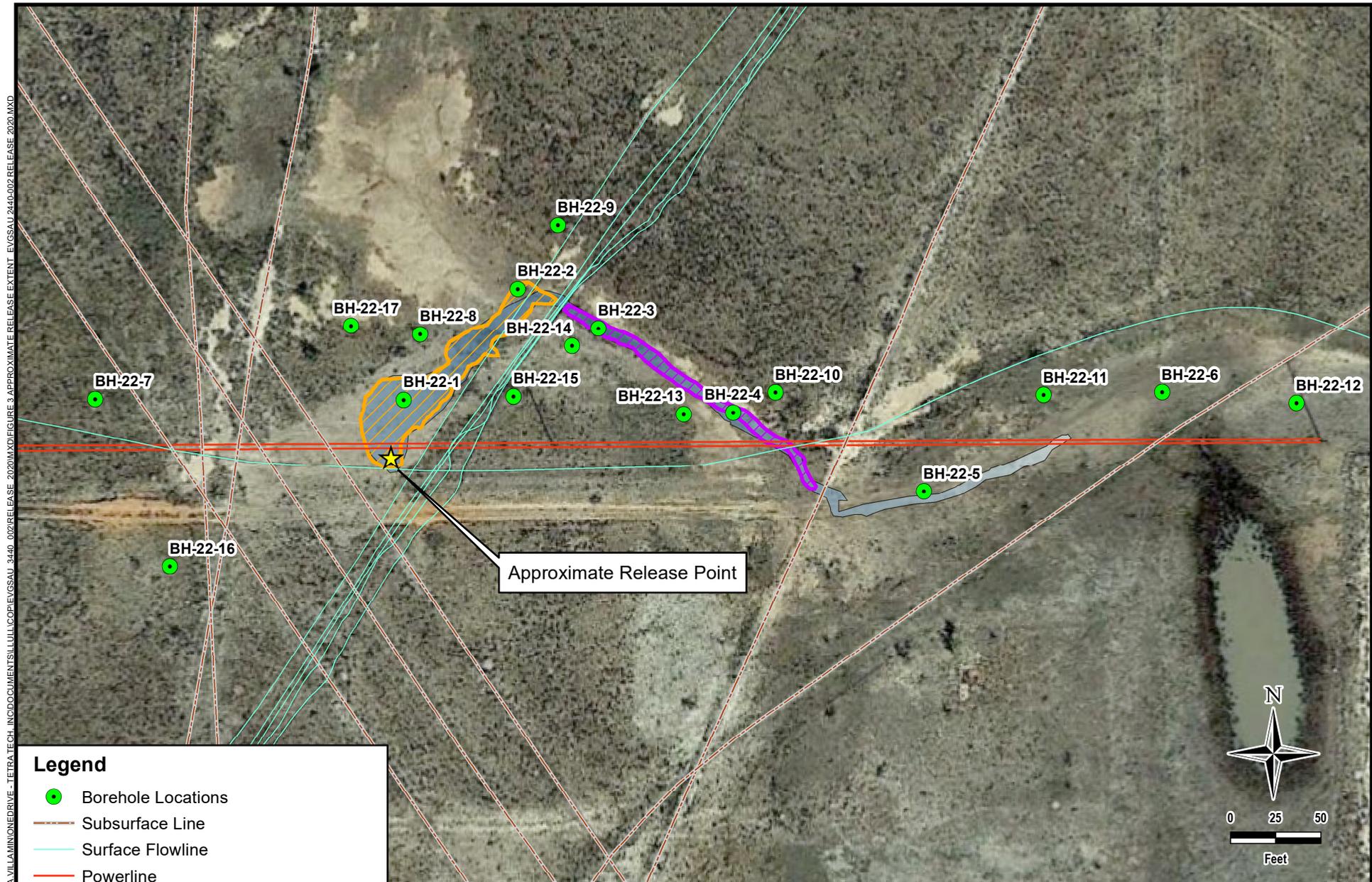


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**MAVERICK PERMIAN, LLC**  
NRH2003532478 & NAPP2129936218  
(32.789749°, -103.449656°)  
LEA COUNTY, NEW MEXICO  
**EVGSAU 3440-002 RELEASES**  
**TOPOGRAPHIC MAP**

PROJECT NO.: 212C-HN-02255  
DATE: MARCH 14, 2022  
DESIGNED BY: LMV

Figure No.  
**2**



DOCUMENT PATH: C:\USERS\JESSA.VILLAMONEDRIVE\TETRA TECH\INC\DOCUMENTS\ISILLULLICOPEVGSALU\_3440\_002\RELEASE\_2020\MXD\Figure 3 APPROXIMATE RELEASE EXTENT\_EVGSALU\_2410-002 RELEASE\_2020.MXD

**Legend**

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Powerline
- Approximate Release Extent
- Initial Response Excavation - 1' bgs
- Initial Response Excavation - 3' bgs

\*BGS- Below Ground Surface  
Image Source: Google Earth, 2017.

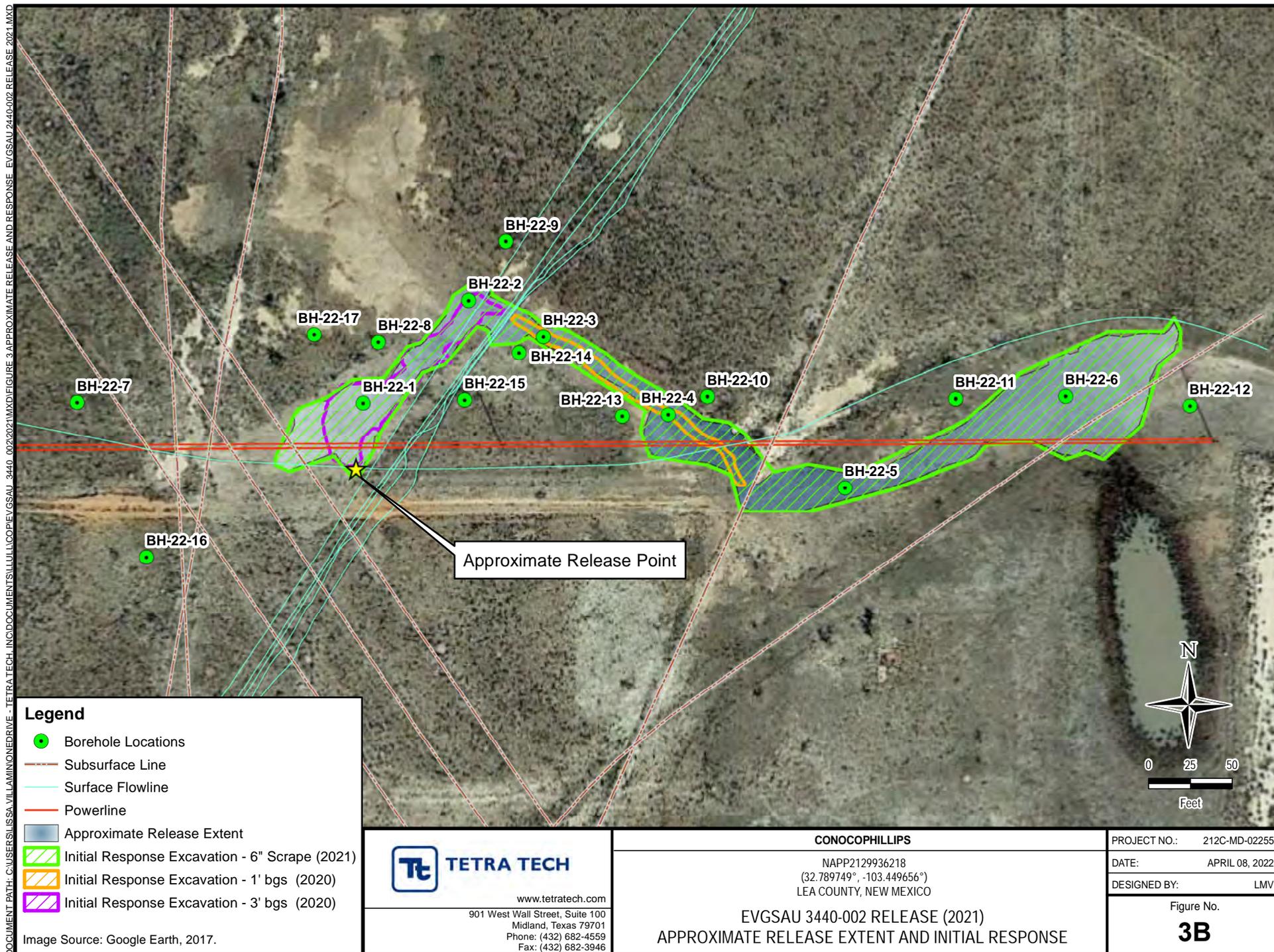


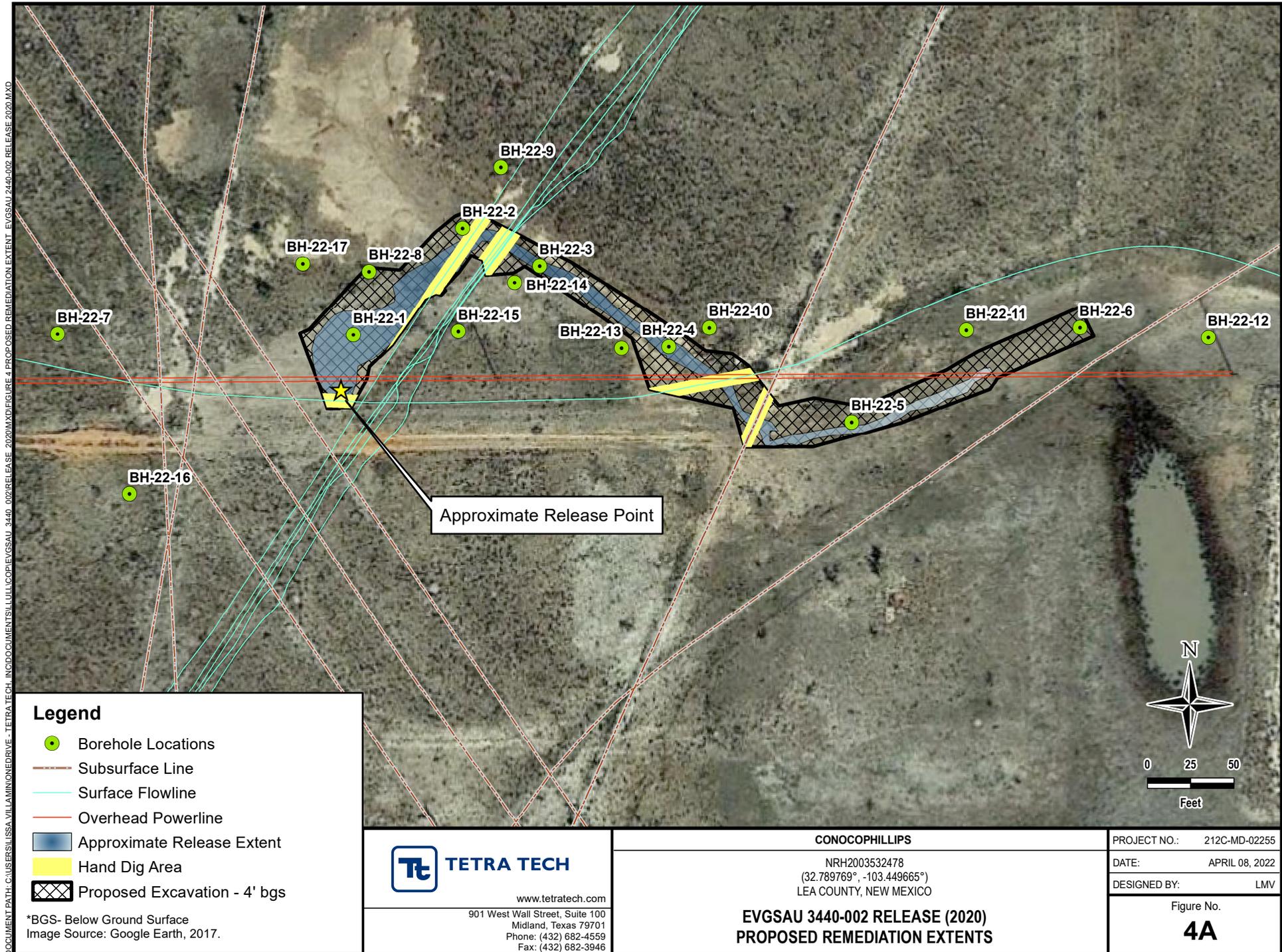
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**CONOCOPHILLIPS**  
NRH2003532478  
(32.789769°, -103.449665°)  
LEA COUNTY, NEW MEXICO

**EVGSALU 3440-002 RELEASE (2020)  
APPROXIMATE RELEASE EXTENT AND SOIL ASSESSMENT**

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV
Figure No.	<b>3A</b>





DOCUMENT PATH: C:\USERS\JESSA.VILLAMONEDRIVE - TETRA TECH\INC\DOCUMENTS\ILLUSTRATIONS\FIGURE 4 PROPOSED REMEDIATION EXTENT\_EVGSAU 3440-002 RELEASE 2020.MXD

**Legend**

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent
- Hand Dig Area
- Proposed Excavation - 4' bgs

\*BGS- Below Ground Surface  
Image Source: Google Earth, 2017.

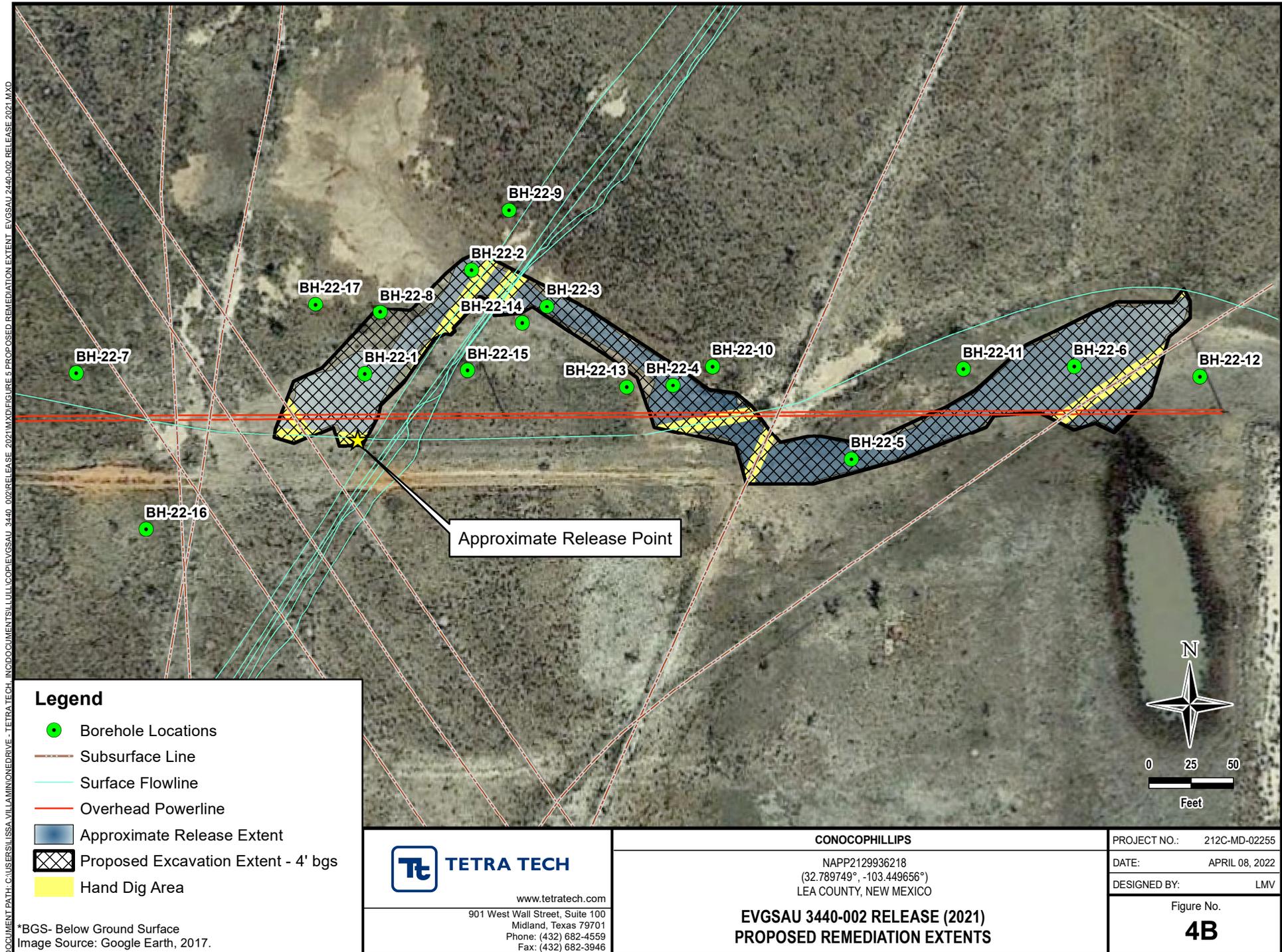


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CONOCOPHILLIPS

NRH2003532478  
(32.789769°, -103.449665°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 3440-002 RELEASE (2020)  
PROPOSED REMEDIATION EXTENTS**



DOCUMENT PATH: C:\USERS\JESSA.VILLAMONEDRIVE\TETRA TECH\INCIDENTS\ILLUSTRATIONS\COPIES\EVGSAU\_3440\_002\RELEASE\_2021\MXD\FIGURE 5 PROPOSED REMEDIATION EXTENT\_EVGSAU 2440-002.RELEASE 2021.MXD

**Legend**

- Borehole Locations
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent
- Proposed Excavation Extent - 4' bgs
- Hand Dig Area

\*BGS- Below Ground Surface  
Image Source: Google Earth, 2017.



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Fax: (432) 682-3946

**CONOCOPHILLIPS**

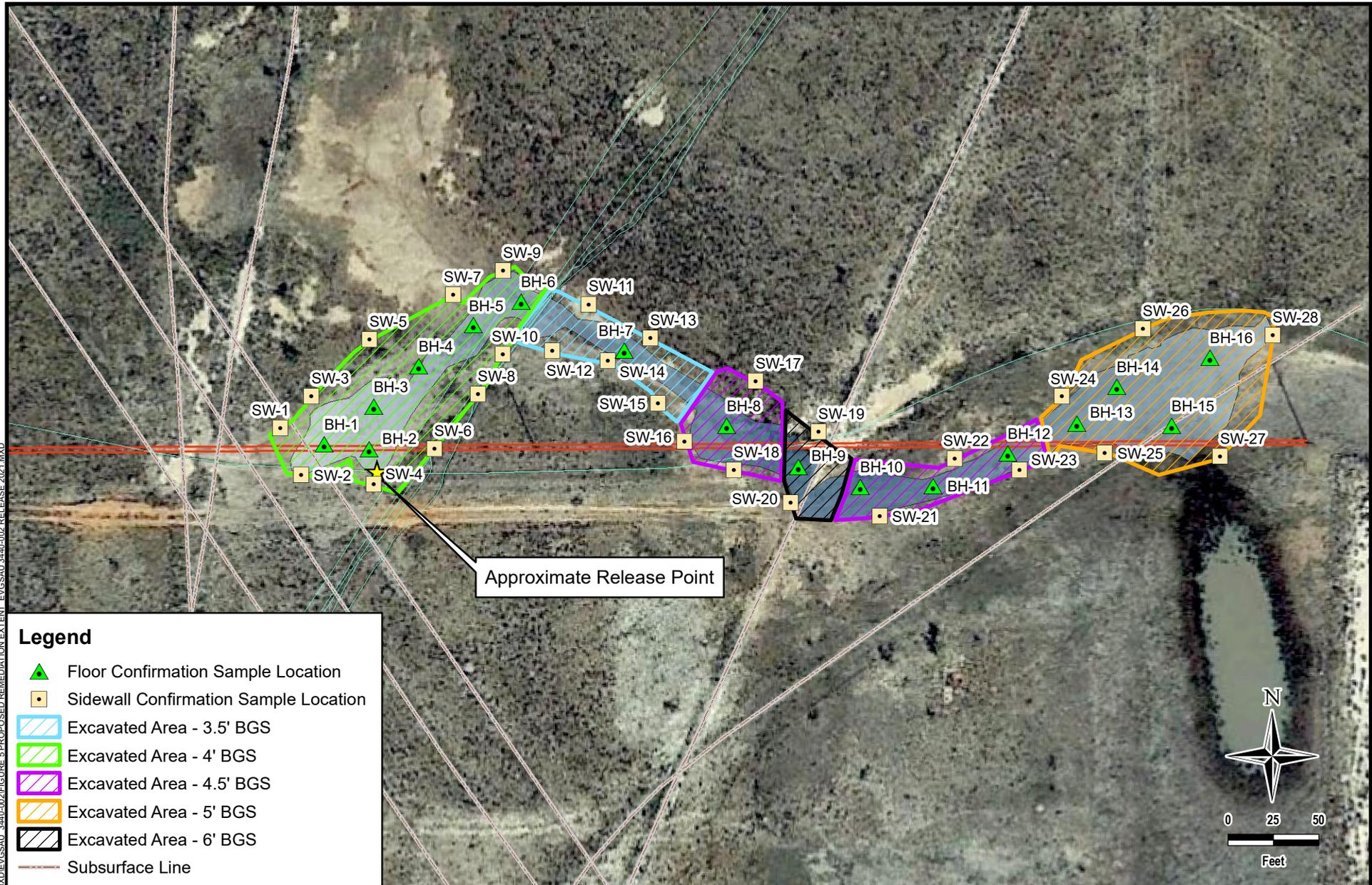
NAPP2129936218  
(32.789749°, -103.449656°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 3440-002 RELEASE (2021)  
PROPOSED REMEDIATION EXTENTS**

PROJECT NO.:	212C-MD-02255
DATE:	APRIL 08, 2022
DESIGNED BY:	LMV

Figure No.

**4B**



DOCUMENT PATH: D:\MAVERICK\X\EVGSAU\_3440-002\FIGURE 5 PROPOSED REMEDIATION EXTENT EVGSAU 3440-002 RELEASE 2021.MXD

**Legend**

- ▲ Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location
- Excavated Area - 3.5' BGS
- Excavated Area - 4' BGS
- Excavated Area - 4.5' BGS
- Excavated Area - 5' BGS
- Excavated Area - 6' BGS
- Subsurface Line
- Surface Flowline
- Overhead Powerline
- Approximate Release Extent

\*BGS- Below Ground Surface  
Image Source: Google Earth, 2017.



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**MAVERICK PERMIAN, LLC**

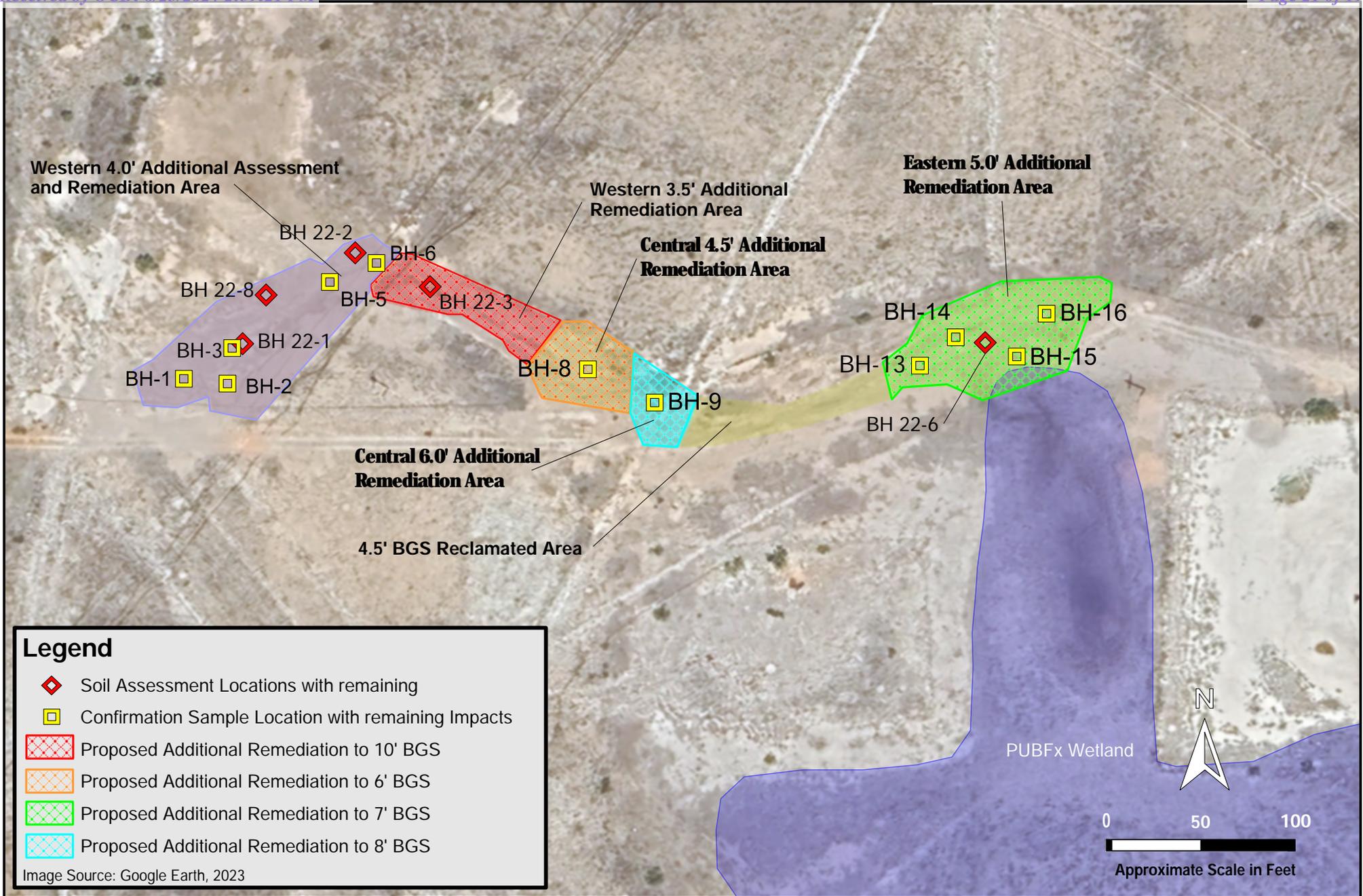
NRH2003532478 & NAPP2129936218  
(32.789749°, -103.449656°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 3440-002 RELEASES  
REMEDATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS**

PROJECT NO.:	212C-HN-02255
DATE:	OCTOBER 12, 2023
DESIGNED BY:	LMV

Figure No.

**5**



**Legend**

- ◆ Soil Assessment Locations with remaining
- Confirmation Sample Location with remaining Impacts
- Proposed Additional Remediation to 10' BGS
- Proposed Additional Remediation to 6' BGS
- Proposed Additional Remediation to 7' BGS
- Proposed Additional Remediation to 8' BGS

Image Source: Google Earth, 2023



1500 CityWest Boulevard  
Suite 1000  
Houston, Texas 77042

**MAVERICK PERMAIN, LLC**  
nRH2003532478 & nAPP2129936218  
32.7894821°, -103.4476547° & 32.789948°, -103.44811°  
LEA COUNTY, NEW MEXICO

**EVGSAU 3440-002 FLOWLINE RELEASES  
PROPOSED ADDITIONAL REMEDIATION EXTENTS MAP**

PROJECT NO: 212C-HN-02255  
DATE: AUGUST 15, 2024  
DESIGNED BY: CHT

Figure No.  
**6**

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## TABLES


**TETRA TECH**

**TABLE 1**  
**SOIL ASSESSMENT LOCATIONS**  
**INCIDENT IDS NRH2003532478 & NAPP2129936218**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 3440-002 FLOWLINE RELEASES**  
**LEA COUNTY, NEW MEXICO**

Boring ID	Date	Latitude	Longitude
BH-22-1	2/17/2022	32.789856	-103.449641
BH-22-2	2/16/2022	32.790023	-103.449434
BH-22-3	2/17/2022	32.789962	-103.449290
BH-22-4	2/17/2022	32.789833	-103.449048
BH-22-5	2/16/2022	32.789710	-103.448706
BH-22-6	2/16/2022	32.789858	-103.448276
BH-22-7	2/16/2022	32.789843	-103.450160
BH-22-8	2/16/2022	32.789946	-103.449598
BH-22-9	2/16/2022	32.790116	-103.449360
BH-22-10	2/17/2022	32.789855	-103.448987
BH-22-11	2/17/2022	32.789842	-103.448483
BH-22-12	2/17/2022	32.789852	-103.448031
BH-22-13	2/17/2022	32.789833	-103.449118
BH-22-14	2/17/2022	32.789947	-103.449338
BH-22-15	2/17/2022	32.789866	-103.449442
BH-22-16	2/16/2022	32.789605	-103.450066
BH-22-17	3/8/2022	32.789968	-103.449720

**TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS  
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NRH2003532478 &  
NAPP2129936218  
MAVERICK PERMIAN, LLC  
EVGSAU FLOWLINE RELEASES  
LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>								TPH <sup>3</sup>								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		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
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>						<b>100</b>		
BH-22-01	2/17/2022	2-3	4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	3,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	2,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	976		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	608		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	1,020	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		24-25	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
29-30	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		
BH-22-02	2/16/2022	2-3	1,920		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.3		436		88.3		536
		4-5	2,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		378		76.2		454
		6-7	1,810		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		15.9		661		136		813
		9-10	2,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		94		10.8		105
		14-15	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-03	2/17/2022	2-3	3,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		134		19.1		153
		4-5	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	1,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	1,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		
BH-22-04	2/17/2022	2-3	1,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-05	2/16/2022	0-1	2,760	QM-07	< 0.200		1.08		15		33.2		49.2		1,540		12,900		2,110		16,550
		2-3	1,880		< 0.050		< 0.050		0.169		0.402		0.571		41.6		1,340		272		1,654
		4-5	1,180		< 0.050		< 0.050		0.099		0.311		0.41		39.3		1,440		270		1,749
		6-7	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		93.7		< 10.0		93.7
19-20	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		
BH-22-06	2/16/2022	0-1	8,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		764		166		930
		2-3	4,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		96		66.7		113
		4-5	3,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	2,640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
19-20	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		

**TABLE 2  
SUMMARY OF SOIL ANALYTICAL RESULTS  
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NRH2003532478 &  
NAPP2129936218  
MAVERICK PERMIAN, LLC  
EVGSAU FLOWLINE RELEASES  
LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>								TPH <sup>3</sup>								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		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
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>						<b>100</b>		
BH-22-07	2/16/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-08	2/16/2022	0-1	<b>992</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	<b>1,650</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	<b>1,150</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	<b>1,010</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	<b>768</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-09	2/16/2022	0-1	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-10	2/17/2022	0-1	< 16.0		< 0.050		<b>0.064</b>		<b>0.215</b>		<b>0.442</b>		<b>0.72</b>		<b>12.6</b>		<b>16.7</b>		< 10.0		29
BH-22-11	2/17/2022	0-1	48		< 0.050		<b>0.085</b>		<b>0.198</b>		<b>0.414</b>		<b>0.697</b>		< 10.0		<b>11.6</b>		< 10.0		12
BH-22-12	2/17/2022	0-1	80		< 0.050		<b>0.059</b>		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-13	2/17/2022	0-1	48		< 0.050		<b>0.058</b>		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-14	2/17/2022	0-1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-15	2/17/2022	0-1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-16	2/16/2022	0-1	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-17	3/8/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

**NOTES:**

bgs: Below ground surface  
 mg/kg: Milligrams per kilogram  
 TPH: Total Petroleum Hydrocarbons  
 GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 ORO: Oil Range Organics

1: Method SM4500Cl-B  
 2: Method 8021B  
 3: Method 8015M

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

**QUALIFIERS:**

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

**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 3440-002 FLOWLINE RELEASES**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		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
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>							<b>100</b>	
BH - 1 (4.0')	7/13/2023	4.0 - 4.5	1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 2 (4.0')	7/13/2023	4.0 - 4.5	2,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 3 (4.0')	7/13/2023	4.0 - 4.5	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 4 (4.0')	7/13/2023	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 5 (4.0')	7/11/2023	4.0 - 4.5	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19.1		<10.0		19.1
BH - 6 (4.0')	7/13/2023	4.0 - 4.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 7 (3.5')	7/11/2023	3.5 - 4.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 8 (3.5')	7/12/2023	3.5 - 4.0	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 8 (4.5')	7/17/2023	4.5 - 5.0	3,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 9 (6.0')	7/12/2023	6.0 - 6.5	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 10 (4.5')	7/21/2023	4.5 - 5.0	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 11 (4.5')	7/21/2023	4.5 - 5.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.3		<10.0		16.3
BH - 12 (4.5')	7/28/2023	4.5 - 5.0	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 13 (5.0')	7/28/2023	5.0 - 5.5	2,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 14 (5.0')	7/26/2023	5.0 - 5.5	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		49		10.3		59.3
BH - 15 (5'0")	8/2/2023	5.0 - 5.5	1,170		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.2		<10.0		22.2
BH - 16 (5.0')	7/26/2023	5.0 - 5.5	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 1	7/17/2023	0.5 - 3.5	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/20/2023	0.5 - 3.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 2	7/17/2023	0.5 - 3.5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 3	7/11/2023	0.5 - 3.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		68		22.7		91
	7/14/2023	0.5 - 3.5	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 4	7/13/2023	0.5 - 3.5	1,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 5	7/13/2023	0.5 - 3.5	1,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 6	7/13/2023	0.5 - 3.5	1,310		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 7	7/13/2023	0.5 - 3.5	1,490		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/19/2023	0.5 - 3.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 8	7/13/2023	0.5 - 3.5	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		67.7		51.5		119
	8/8/2023	0.5 - 3.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 3440-002 FLOWLINE RELEASES**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		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
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>							<b>100</b>	
SW - 9	7/14/2023	0.5 - 3.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 10	7/13/2023	0.5 - 3.5	1,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.3		10.5		26.8
SW - 11	7/12/2023	0.5 - 3.0	1,380		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/18/2023	0.5 - 3.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 12	7/13/2023	0.5 - 3.0	520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 13	7/12/2023	0.5 - 3.0	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/18/2023	0.5 - 3.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 14	7/11/2023	0.5 - 3.0	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/18/2023	0.5 - 3.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.7		<10.0		10.7
SW - 15	7/12/2023	0.5 - 3.0	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/18/2023	0.5 - 3.0	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 16	7/12/2023	0.5 - 3.5	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/18/2023	0.5 - 3.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 17	7/12/2023	0.5 - 3.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/17/2023	0.5 - 3.5	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/26/2023	0.5 - 3.5	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	8/3/2023	0.5 - 3.5	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 18	7/12/2023	0.5 - 3.5	1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/17/2023	0.5 - 3.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/26/2023	0.5 - 3.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 19	7/27/2023	0.5 - 5.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.5		19		45.5
SW - 20	7/13/2023	0.5 - 5.5	1,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
	7/26/2023	0.5 - 5.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 21	7/21/2023	0.5 - 4.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		66.9		67.9		134.8
	7/28/2023	0.5 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40.7		45.2		85.9
SW - 22	7/21/2023	0.5 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 23	7/21/2023	0.5 - 4.0	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 24	7/28/2023	0.5 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 25	8/2/2023	0.5 - 4.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		39.4		36.6		76.0
SW - 26	7/27/2023	0.5 - 4.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 27	8/8/2023	0.5 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW - 28	7/28/2023	0.5 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL CONFIRMATION SAMPLING - INCIDENT IDS NRH2003532478 & NAPP2129936218**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 3440-002 FLOWLINE RELEASES**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		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
feet bgs		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>							<b>100</b>	

**NOTES:**

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics      1: Method SM4500Cl-B

DRO: Diesel Range Organics        2: Method 8021B

ORO: Oil Range Organics            3: Method 8015M

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

**Areas where samples were collected, overexcavated, and resampled.**

**TABLE 4**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**CONFIRMATION SAMPLES REQUIRING ADDITIONAL REMEDIATION - INCIDENT IDS NRH2003532478 & NAPP2129936218**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 3440-002 FLOWLINE RELEASES**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		Total TPH (GRO+DRO+EXT DRO) mg/kg
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>									<b>50</b>						<b>100</b>	
BH - 1 (4.0')	7/13/2023	4.0 - 4.5	<b>1,340</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 2 (4.0')	7/13/2023	4.0 - 4.5	<b>2,960</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 3 (4.0')	7/13/2023	4.0 - 4.5	<b>3,320</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 5 (4.0')	7/11/2023	4.0 - 4.5	<b>1,020</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19.1		<10.0		19.1
BH - 6 (4.0')	7/13/2023	4.0 - 4.5	<b>4,000</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 8 (4.5')	7/17/2023	4.5 - 5.0	<b>3,280</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 9 (6.0')	7/12/2023	6.0 - 6.5	<b>1,800</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 13 (5.0')	7/28/2023	5.0 - 5.5	<b>2,880</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 14 (5.0')	7/26/2023	5.0 - 5.5	<b>2,280</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		49		10.3		59.3
BH - 15 (5'0")	8/2/2023	5.0 - 5.5	<b>1,170</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.2		<10.0		22.2
BH - 16 (5.0')	7/26/2023	5.0 - 5.5	<b>944</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics 1: Method SM4500Cl-B

DRO: Diesel Range Organics 2: Method 8021B

ORO: Oil Range Organics 3: Method 8015M

**Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.**

**Confirmation Sampling Results do not meet Reclamation Requirements**

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## **ATTACHMENT 1: SITE CHARACTERIZATION DATA**



# EVGSAU 3440-002 Wetlands



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands\_team@fws.gov

July 10, 2024

### Wetlands

- |  |   |  |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland       |  Lake     |
|  Estuarine and Marine Wetland   |  Freshwater Forested/Shrub Wetland |  Other    |
|  |  Freshwater Pond                   |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# 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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">L_04775</a>	L	LE		4	1	34	17S	35E		645365	3629421*	422	133	68	65
<a href="#">L_04727</a>	L	LE				34	17S	35E		645576	3629214*	434	120	45	75
<a href="#">L_04793</a>	L	LE				34	17S	35E		645576	3629214*	434	150	50	100
<a href="#">L_04618</a>	L	LE		3	3	34	17S	35E		644973	3628611*	477	128	55	73
<a href="#">L_05834 POD6</a>	L	LE		1	1	4	34	17S	35E	645673	3629122*	501	234	65	169
<a href="#">L_05834</a>	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	518	160	70	90
<a href="#">L_05834 POD5</a>	L	LE		2	2	4	33	17S	35E	644663	3629109*	518	234	65	169
<a href="#">L_04633</a>	L	LE		2	4	33	17S	35E		644564	3629010*	614	130	65	65

Average Depth to Water: **60 feet**  
 Minimum Depth: **45 feet**  
 Maximum Depth: **70 feet**

**Record Count:** 8

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 645177.447

**Northing (Y):** 3629042.152

**Radius:** 800

\*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.

3/3/22 9:54 AM

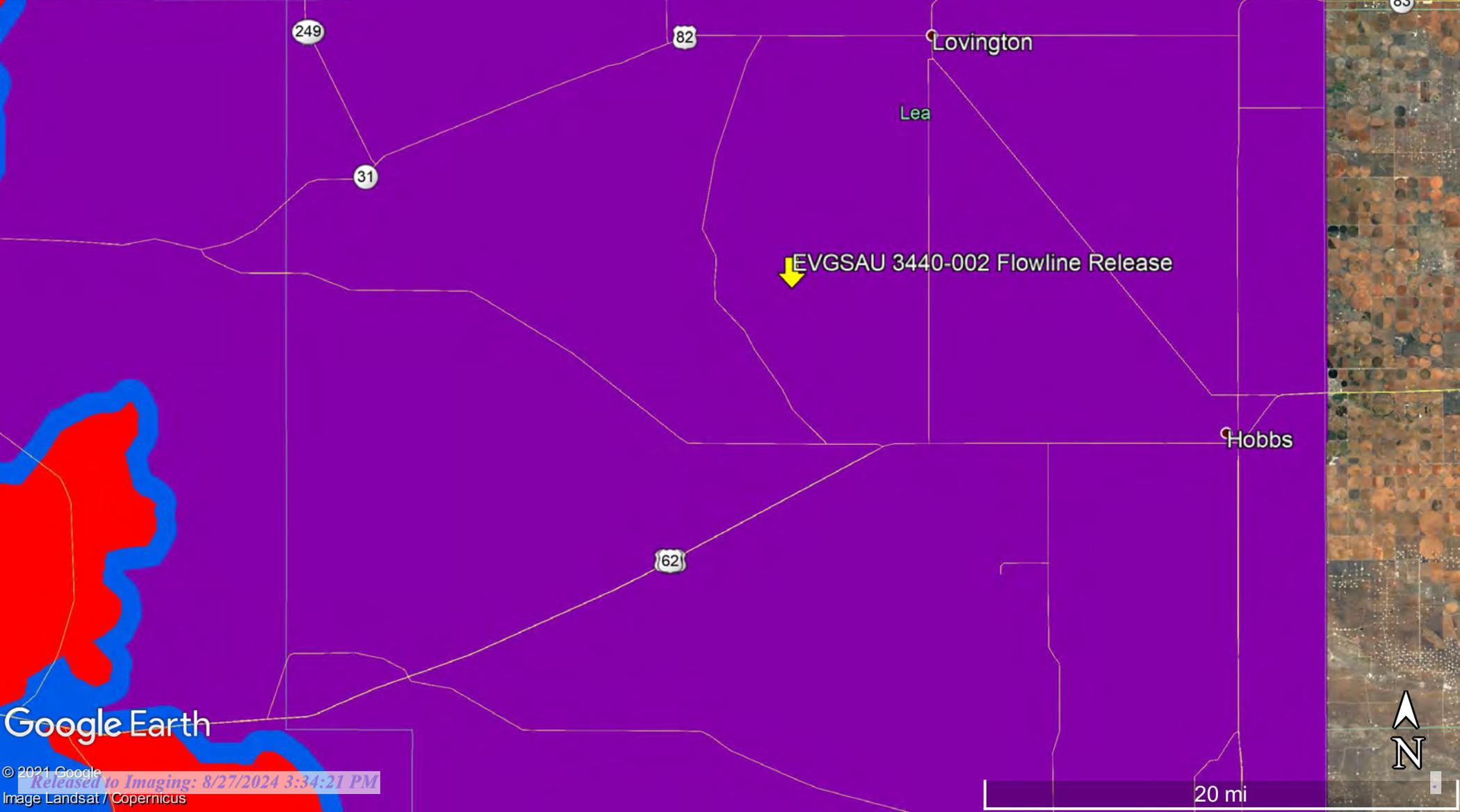
WATER COLUMN/ AVERAGE DEPTH TO WATER

# Karst Potential Map

EVGSAU 3440-002 Flowline Release  
NRH2003532478

## Legend

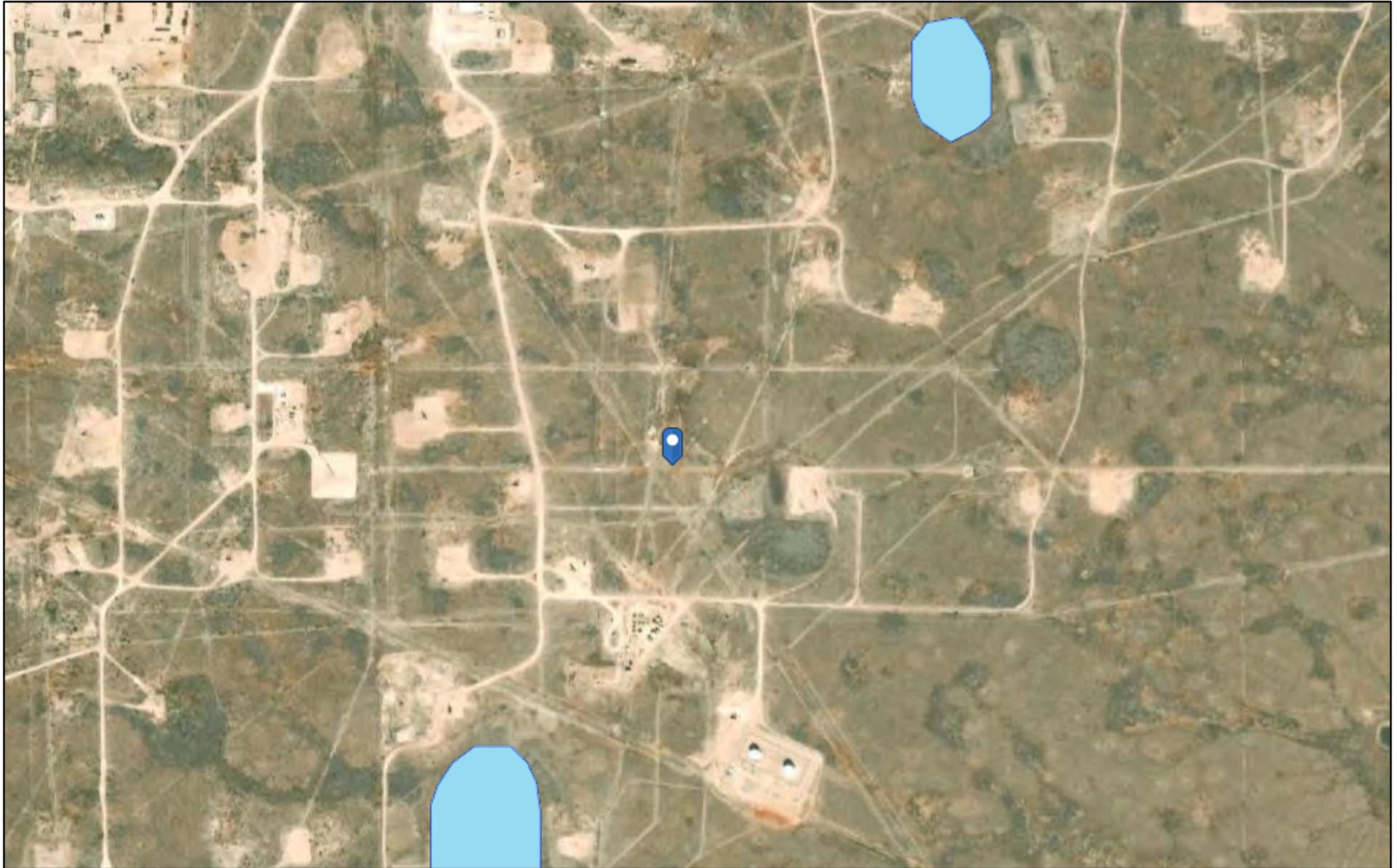
-  EVGSAU 3440-002 Flowline Release
-  High
-  Low
-  Medium



Google Earth

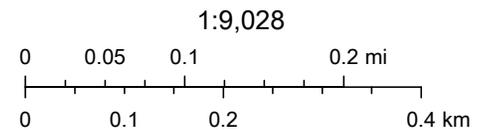


# OCD Water Bodies



2/11/2022, 3:50:20 PM

- ★ OCD District Offices
- PLJV Probable Playas
- OSE Water-bodies
- OSE Streams



OCD, Maxar



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Lea County, New Mexico



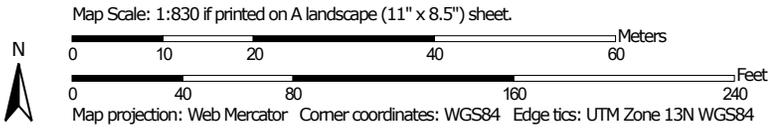
February 11, 2022

## Soil Map

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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

### Custom Soil Resource Report Soil Map



Custom Soil Resource Report

**MAP LEGEND**

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

**Special Point Features**

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

**Background**

 Aerial Photography

**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
 Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.6	100.0%
<b>Totals for Area of Interest</b>		<b>1.6</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

**Lea County, New Mexico****KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting**

*National map unit symbol:* 2tw46  
*Elevation:* 2,500 to 4,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Kimbrough and similar soils:* 45 percent  
*Lea and similar soils:* 25 percent  
*Minor components:* 30 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kimbrough****Setting**

*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Concave, linear  
*Parent material:* Loamy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Lea****Setting***Landform:* Plains*Down-slope shape:* Convex*Across-slope shape:* Linear*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age**Typical profile***A - 0 to 10 inches:* loam*Bk - 10 to 18 inches:* loam*Bkk - 18 to 26 inches:* gravelly fine sandy loam*Bkkm - 26 to 80 inches:* cemented material**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* 22 to 30 inches to petrocalcic*Drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 90 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 3.0*Available water supply, 0 to 60 inches:* Very low (about 2.9 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7s*Hydrologic Soil Group:* D*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ*Hydric soil rating:* No**Minor Components****Douro***Percent of map unit:* 12 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Linear*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ*Other vegetative classification:* Unnamed (G077DH000TX)*Hydric soil rating:* No**Kenhill***Percent of map unit:* 12 percent*Landform:* Plains*Down-slope shape:* Linear*Across-slope shape:* Linear*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ*Hydric soil rating:* No

Custom Soil Resource Report

**Spraberry**

*Percent of map unit:* 6 percent

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

# SLO Seed Mix

# SM Series

## 1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

**Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico**

REVEGETATION PLANS	CODE	SOIL TEXTURES
<b>Clay</b>	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
<b>Loam</b>	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
<b>Sandy Loam</b>	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
<b>Shallow</b>	SH	Rocky Loam, Cobbly Loam
<b>Course</b>	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
<b>Sandy</b>	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
<b>Blow Sand</b>	BS	Fine Sand, Sand, Coarse Sand
<b>Mountain Meadow</b>	MM	Clay, Loam
<b>Mountain Upland</b>	MU	Clay Loam, Loam



# NMSLO Seed Mix

# Loamy (L)

**LOAMY (L) SITES SEED MIXTURE:**

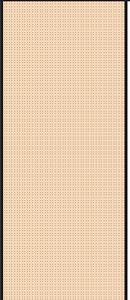
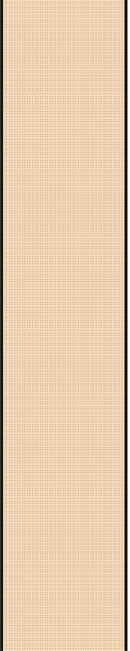
COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<b>Forbs:</b>			
Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
<b>Total PLS/acre</b>		<b>18.0</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box  
 VNS = Variety Not Stated, PLS = Pure Live Seed

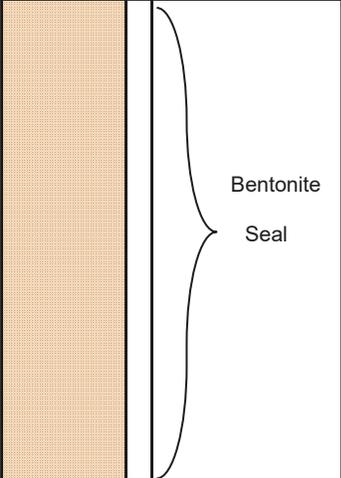
- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



<b>Logger:</b>	Jacob Kamplain		
<b>Driller:</b>	White Drilling		
<b>Drilling Method:</b>	Air Rotary		
<b>Start Date:</b>	2/11/2016		
<b>End Date:</b>	2/11/2016		
<b>Comments:</b> All Samples were taken from cuttings.			<b>Company:</b> ConocoPhillips
<b>DRAFTED BY:</b>			<b>Project Name:</b> Vac ABO Battery #3
TD = 50'			<b>Well ID:</b> SB-2
GW = 71'			<b>Project Consultant:</b> Basin
			<b>Location:</b> U/L N Sec 34 T-17-S R-35-E
			<b>Lat:</b> 32.787554 <b>County:</b> Lea
			<b>Long:</b> -103.449746 <b>State:</b> NM

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS	1295		9.7	dark brown clay w/ sandy clay		
5 ft	1362		2			
10 ft	1125	CL-2560 GRO <10 DRO <10	0.6			
15 ft	375		1.5	limestone		
20 ft	1447		0.7	brown sand/sand stone		
25 ft	1007	CL-1100 GRO <10 DRO <10	0.5			
30 ft	634		0.6			
35 ft	716	CL-704 GRO <10 DRO <10	0.5			

Bentonite Seal

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
40 ft	524		0.5	brown sand/sand stone		
45 ft	411		0.3			
50 ft	284	CL-368	0.6			
		GRO <10				
		DRO <10				

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## **ATTACHMENT 2: BORELOGS**

212C-MD-02499	 <b>TETRA TECH</b>	<b>LOG OF BORING BH-22-1</b>	Page 1 of 2
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789856°, -103.449641°      Surface Elevation: 3931 ft

Borehole Number: BH-22-1      Borehole Diameter (in.): 8      Date Started: 2/17/2022      Date Finished: 2/17/2022

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
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:	
5												-- Previously excavated during initial response activities.	
												-SM- SILTY SAND: Brown, loose, with clay, dry.	2
												-SM- SILTY SAND: Tan, moderately cemented, moderate gravel.	3
10												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.	7
15													
20												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.	16
25													

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

212C-MD-02499	 <b>TETRA TECH</b>	<b>LOG OF BORING BH-22-1</b>	Page 2 of 2
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789856°, -103.449641°      Surface Elevation: 3931 ft

Borehole Number: BH-22-1      Borehole Diameter (in.): 8      Date Started: 2/17/2022      Date Finished: 2/17/2022

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
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			While Drilling <input checked="" type="checkbox"/> DRY ft    Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks:			
30												30	BH-22-1 (29'-30')		

Bottom of borehole at 30.0 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"/> Discrete Sample <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: Joe Tyler      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

212C-MD-02499	<b>TETRA TECH</b>	<b>LOG OF BORING BH-22-2</b>	Page 1 of 1
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.790023°, -103.449434°      Surface Elevation: 3929 ft

Borehole Number: BH-22-2      Borehole Diameter (in.): 8      Date Started: 2/16/2022      Date Finished: 2/16/2022

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
			ExStik	PID								While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:	
5											-- Previously excavated during initial response activities.		
											-SM- SILTY SAND: Brown, loose, with clay, dry.	2	BH-22-2 (2'-3')
											-SM- SILTY SAND: Tan, moderately cemented, moderate gravel.	3	BH-22-2 (4'-5')
											-SM- CALICHE: Tan, dense, heavily cemented, with gravel.	7	BH-22-2 (6'-7')
10											-SM- CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-2 (9'-10')
15											-SM- SILTY SAND: Tan, dense, moderately cemented, dry.	16	BH-22-2 (14'-15')
20											-SM- SILTY SAND: Tan, dense, moderately cemented, dry.	20	BH-22-2 (19'-20')

Bottom of borehole at 20.0 feet.

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



212C-MD-02499	 <b>TETRA TECH</b>	<b>LOG OF BORING BH-22-4</b>	Page 1 of 1
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789833°, -103.449048°      Surface Elevation: 3928 ft

Borehole Number: BH-22-4      Borehole Diameter (in.): 8      Date Started: 2/17/2022      Date Finished: 2/17/2022

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
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION			
5												-- Previously excavated during initial response activities.			
												-SM- SILTY SAND: Brown, loose, with clay, dry.	2		
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.	3		BH-22-4 (2'-3')
															BH-22-4 (4'-5')
															BH-22-4 (6'-7')
10															BH-22-4 (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"/> Discrete Sample <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: Joe Tyler      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

212C-MD-02499	<b>TETRA TECH</b>	<b>LOG OF BORING BH-22-5</b>	Page 1 of 1
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789710°, -103.448706°      Surface Elevation: 3925 ft

Borehole Number: BH-22-5      Borehole Diameter (in.): 8      Date Started: 2/16/2022      Date Finished: 2/16/2022

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:		
5											-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-5 (0-1')	
											-SM- CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-5 (2'-3')	
													BH-22-5 (4'-5')	
													BH-22-5 (6'-7')	
10													BH-22-5 (9'-10')	
15													BH-22-5 (14'-15')	
												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.	16	
20													20	BH-22-5 (19'-20')

Bottom of borehole at 20.0 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"/> Discrete Sample <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: Joe Tyler      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

212C-MD-02499	 <b>TETRA TECH</b>	<b>LOG OF BORING BH-22-6</b>	Page 1 of 1
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Project Name: EVGSAU 3440-002 Flowline Release

Borehole Location: GPS: 32.789858°, -103.448276°      Surface Elevation: 3925 ft

Borehole Number: BH-22-6      Borehole Diameter (in.): 8      Date Started: 2/16/2022      Date Finished: 2/16/2022

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								While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
5											-SM- SILTY SAND: Brown, loose, with clay, dry.	3	BH-22-6 (0-1')	
											-SM- CALICHE: Tan, dense, heavily cemented, with gravel.		BH-22-6 (2'-3')	
													BH-22-6 (4'-5')	
													BH-22-6 (6'-7')	
10													BH-22-6 (9'-10')	
15													BH-22-6 (14'-15')	
													BH-22-6 (19'-20')	
20														

Bottom of borehole at 20.0 feet.

<b>Sampler Types:</b> <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"/> Discrete Sample <input checked="" type="checkbox"/> Test Pit	<b>Operation Types:</b> <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	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
--	--	---	--	---

Logger: Joe Tyler      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

**ATTACHMENT 3: CULTURAL RESOURCES SURVEY COVER PAGE**

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 2 9 4 2**

## Registration

**Lead Agency:** New Mexico State Land Office

**Performing Agency:** SWCA Environmental Consultants

**Activity ID:** 81408

**Performing Agency Report No:** 23-323

**Report Recipient (Your Client):** Tetra Tech, Inc.

- Activity Types:**
- Research Design
  - Archaeological Survey/Inventory
  - Architectural Survey/Inventory
  - Test Excavation
  - Monitoring
  - Collections/Non-Field Study
  - Compliance Decision
  - Literature Review Overview
  - Excavation
  - Ethnographic Study
  - Resource/Property Visit
  - Historic Structures Report
  - Other:

**Total Survey Acreage:** 5.87

**Total Tribal Acreage:** 0.00

**Total Resources Visited:** 0

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 1 5 2 9 4 2**

## Associate/Register Resources

---

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
			<input type="checkbox"/>		<input type="checkbox"/>	

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## **ATTACHMENT 4: PHOTOGRAPHIC DOCUMENTATION**

# Lovington NM

☉ 280°W (T) LAT: 32.789973 LON: -103.449103 ±4m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick-EVGSAU 3440-002  
Jul 06 2023, 15:07:28 MDT

# Lovington NM

☉ 300°NW (T) **LAT: 32.789920 LON: -103.449120 ±4m ▲ 1197m**



Site Remediation  
Tetra Tech

Maverick-EVGSAU 3440-002  
Jul 07 2023, 15:06:28 MDT

# Lovington NM

☉ 315°NW (T) LAT: 32.789899 LON: -103.449143 ±4m ▲ 1198m



Site Remediation  
Tetra Tech

Maverick-EVGSAU 3440-002  
Jul 07 2023, 15:06:49 MDT



☀ 38°NE (T) LAT: 32.789965 LON: -103.449548 ±4m ▲ 1199m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 11 2023 16:18:05 MDT



☉ 213°SW (T) LAT: 32.789987 LON: -103.449520 ±3m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 11 2023, 16:18:22 MDT

NE

E

SE

S

30

60

90

120

150

180

☀ 96°E (T) LAT: 32.789979 LON: -103.449411 ±4m ▲ 1198m



Site Remediation  
Tetra Tech.

Maverick-3440-002  
Jul 12 2023, 15:41:10 MDT

NE

E

SE

S

30

60

90

120

150

180

☀ 113°SE (T) LAT: 32.789942 LON: -103.449271 ±3m ▲ 1197m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 12 2023, 15:41:48 MDT

NE

E

SE

S

30

60

90

120

150

180

☀ 96°E (T) LAT: 32.789845 LON: -103.449869 ±4m ▲ 1203m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 14 2023, 15:23:29 MDT



☉ 275°W (T) LAT: 32.789826 LON: -103.449579 ±3m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 19 2023, 15:24:06 MDT

N NE E SE

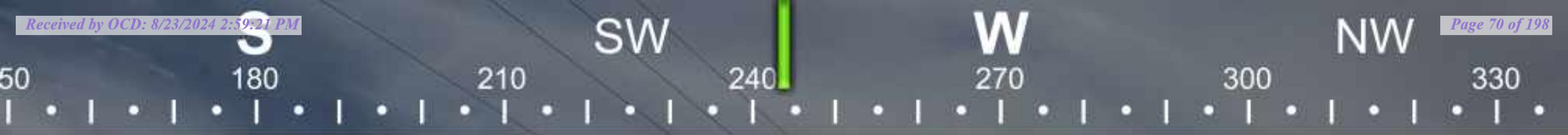
0 30 60 90 120 150

☀ 83°E (T) LAT: 32.789996 LON: -103.449584 ±4m ▲ 1198m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Jul 19 2023, 15:25:46 MDT



☉ 244°SW (T) LAT: 32.789896 LON: -103.449561 ±4m ▲ 1196m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 08 2023, 13:31:38 MDT



☀ 119°SE (T) **LAT: 32.789990 LON: -103.449274 ±4m ▲ 1199m**



Site Remediation  
Tetra Tech

Maverick-3440-002  
-Aug 08 2023, 13:33:03 MDT

SW

W

NW

N

210

240

270

300

330

0

30

☀ 296°NW (T) LAT: 32.789746 LON: -103.448862 ±4m ▲ 1197m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 08 2023, 13:34:17 MDT

W

NW

N

NE

270

300

330

0

30

60

☉ 338°N (T) LAT: 32.789673 LON: -103.448094 ±4m ▲ 1195m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 09 2023, 15:31:16 MDT



☀ 308°NW (T) LAT: 32.789636 LON: -103.448788 ±3m ▲ 1197m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 09 2023, 15:32:41 MDT

S

SW

W

NW

180

210

240

270

300

330

☉ 250°W (T) LAT: 32.789917 LON: -103.449405 ±4m ▲ 1196m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 09 2023, 15:34:14 MDT



☉ 270°W (T) LAT: 32.789892 LON: -103.448587 ±4m ▲ 1197m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:14:33 MDT

SW

W

NW

N

210

240

270

300

330

0

3

☀ 295°NW (T) LAT: 32.789898 LON: -103.448783 ±4m ▲ 1199m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:15:03 MDT

S

SW

W

NW

180

210

240

270

300

330

☀ 250°W (T) LAT: 32.790144 LON: -103.448936 ±4m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:15:42 MDT



☉ 183°S (T) **LAT: 32.790141 LON: -103.448931 ±4m ▲ 1199m**



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:15:47 MDT



☀ 87°E (T) LAT: 32.789558 LON: -103.449597 ±3m ▲ 1202m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:20:58 MDT



☀ 31°NE (T) LAT: 32.789568 LON: -103.449889 ±4m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick-3440-002  
Aug 22 2023, 09:21:43 MDT

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## **ATTACHMENT 5: LABORATORY ANALYTICAL DATA**



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

---

July 14, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASR REM

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 16:32.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 3 (H233579-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1120	16.0	07/13/2023	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	189	94.6	200	15.3		
DRO >C10-C28*	68.0	10.0	07/13/2023	ND	223	112	200	0.285		
EXT DRO >C28-C36	22.7	10.0	07/13/2023	ND						

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 14 (H233579-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	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	1360	16.0	07/13/2023	ND	448	112	400	7.41	

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	07/13/2023	ND	189	94.6	200	15.3	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 5 (4.0') (H233579-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.63	
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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
<b>Chloride</b>	<b>1020</b>	16.0	07/13/2023	ND	448	112	400	7.41	

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	07/13/2023	ND	189	94.6	200	15.3	
<b>DRO &gt;C10-C28*</b>	<b>19.1</b>	10.0	07/13/2023	ND	223	112	200	0.285	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/12/2023	Sampling Date:	07/11/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASR	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 7 (3.5') (H233579-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	7.63		
Toluene*	<0.050	0.050	07/12/2023	ND	2.15	108	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.07	103	2.00	8.34		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.38	106	6.00	8.09		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	160	16.0	07/13/2023	ND	448	112	400	7.41		

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	07/13/2023	ND	189	94.6	200	15.3		
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	223	112	200	0.285		
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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July 14, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:10.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 15 (H233597-01)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	QR-03
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	QR-03
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	800	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 13 (H233597-02)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1600	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 17 (H233597-03)**

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	07/13/2023	ND	2.01	101	2.00	1.11		
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1120	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11		
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57		
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 18 (H233597-04)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1060	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 16 (H233597-05)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	624	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 11 (H233597-06)**

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	07/13/2023	ND	2.01	101	2.00	1.11		
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494		
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05		
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625		
Total BTEX	<0.300	0.300	07/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1380	16.0	07/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11		
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57		
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 9 (6.0') (H233597-07)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1800	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/13/2023	Sampling Date:	07/12/2023
Reported:	07/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 8 (3.5') (H233597-08)**

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1120	16.0	07/14/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	184	91.9	200	8.11	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	181	90.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Celey D. Keene

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:

EVGSAU- 3440-002 Flowline Release Rem

281-755-8965

[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Project Location:  
(county, state)

Lea County, NM

Project #:

212C-HN-02255 Task 100

Invoice to:

Attn: Bryce Wagoner

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

### SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

**A233597**

YEAR: 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			
1	SW-15		X				X			
2	SW-13		X				X			
3	SW-17		X				X			
4	SW-18		X				X			
5	SW-16		X				X			
6	SW-11		X				X			
7	BH-9 (6.0')		X				X			
8	BH-8 (3.5')		X				X			

Relinquished by: *[Signature]* Date: *7/13/23* Time: *13:15*

Received by: *[Signature]* Date: *7-13-23* Time: *13:00*

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

### ANALYSIS REQUEST (Circle or Specify Method No.)

<input type="checkbox"/>	BTEX 8021B
<input type="checkbox"/>	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)
<input type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO - MRO)
<input type="checkbox"/>	PAH 8270C
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input type="checkbox"/>	TCLP Volatiles
<input type="checkbox"/>	TCLP Semi Volatiles
<input type="checkbox"/>	RCI
<input type="checkbox"/>	GC/MS Vol. 8260B / 624
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input type="checkbox"/>	PCB's 8082 / 608
<input type="checkbox"/>	NORM
<input type="checkbox"/>	PLM (Asbestos)
<input type="checkbox"/>	Chloride
<input type="checkbox"/>	Chloride Sulfate TDS
<input type="checkbox"/>	General Water Chemistry (see attached list)
<input type="checkbox"/>	Anion/Cation Balance
<input type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature  
**53°C**

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY



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July 18, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/14/23 16:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 1 (4.0') (H233665-01)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1340	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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\*=Accredited Analyte

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 2 (4.0') (H233665-02)**

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	07/16/2023	ND	2.06	103	2.00	3.50		
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	2960	16.0	07/17/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32		
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30		
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND						

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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\*=Accredited Analyte

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 3 (4.0') (H233665-03)**

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	07/16/2023	ND	2.06	103	2.00	3.50		
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47		
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48		
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85		
Total BTEX	<0.300	0.300	07/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	3320	16.0	07/17/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32		
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30		
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND						

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 4 (4.0') (H233665-04)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	432	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 6 (4.0') (H233665-05)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	4000	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 4 (H233665-06)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1280	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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\*=Accredited Analyte

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 5 (H233665-07)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1440	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 6 (H233665-08)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1310	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	214	107	200	7.32	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	210	105	200	7.30	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 7 (H233665-09)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1490	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 8 (H233665-10)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1680	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 10 (H233665-11)**

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	07/16/2023	ND	2.06	103	2.00	3.50	
Toluene*	<0.050	0.050	07/16/2023	ND	2.03	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	07/16/2023	ND	2.15	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	07/16/2023	ND	6.47	108	6.00	1.85	
Total BTEX	<0.300	0.300	07/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1440	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 12 (H233665-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	520	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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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:	07/14/2023	Sampling Date:	07/13/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 20 (H233665-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1920	16.0	07/17/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2023	ND	192	96.2	200	7.89	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.6	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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**Notes and Definitions**

- 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain 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: EVGSAU- 3440-002 Flowline Release Rem

Chuck Terhune  
281-755-8965  
chuck.terhune@tetratech.com

Project Location: Lea County, NM

Project #: 212C-HN-02255 Task 100

Invoice to: Attn: Bryce Wagoner

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

Comments:

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
1	BH-1 (4.0')	7/13/2023		X	X	X	X	X		
2	BH-2 (4.0')	7/13/2023		X	X	X	X	X		
3	BH-3 (4.0')	7/13/2023		X	X	X	X	X		
4	BH-4 (4.0')	7/13/2023		X	X	X	X	X		
5	BH-6 (4.0')	7/13/2023		X	X	X	X	X		
6	SW-4	7/13/2023		X	X	X	X	X		
7	SW-5	7/13/2023		X	X	X	X	X		
8	SW-6	7/13/2023		X	X	X	X	X		
9	SW-7	7/13/2023		X	X	X	X	X		
10	SW-8	7/13/2023		X	X	X	X	X		

Relinquished by: *[Signature]* Date: 7-14-23 Time: 16:14

Relinquished by: *[Signature]* Date: 7/14/23 Time: 16:15

Received by: *[Signature]* Date: 7/14/23 Time: 16:15

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	<input checked="" type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO - MRO)
<input checked="" type="checkbox"/>	PAH 8270C	<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608	<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)	<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance	<input checked="" type="checkbox"/>	Hold

LAB USE ONLY

Sample Temperature: 4.7

REMARKS: Standard TAT

RUSH: Same Day 24 hr (48 hr) 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain 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**

281-755-8965

Project Name: **EVGSAU- 3440-002 Flowline Release Rem**

Project #: **chuck.terhune@tetratech.com**

Project Location: **Lea County, NM**

212C-HN-02255 Task 100

Invoice to: **Attn: Bryce Wagoner**

Receiving Laboratory: **Cardinal Labs**

Sampler Signature: **Jorge Fernandez**

Comments:

**H333465**  
LAB #  
(LAB USE ONLY)

**SAMPLE IDENTIFICATION**

YEAR: 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
	7/13/2023		X			X			
	7/13/2023		X	X		X			
	7/13/2023		X	X		X			
	7/13/2023		X			X			
	7/13/2023		X			X			
	7/13/2023		X			X			
	7/13/2023		X			X			
	7/13/2023		X			X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	7-14-23	16:14	<i>[Signature]</i>	7/14/23	16:15
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO - MRO)	
<input type="checkbox"/>	PAH 8270C	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Volatiles	
<input type="checkbox"/>	TCLP Semi Volatiles	
<input type="checkbox"/>	RCI	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input type="checkbox"/>	PCB's 8082 / 608	
<input type="checkbox"/>	NORM	
<input type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input type="checkbox"/>	Chloride Sulfate TDS	
<input type="checkbox"/>	General Water Chemistry (see attached list)	
<input type="checkbox"/>	Anion/Cation Balance	
<input type="checkbox"/>	Hold	

**LAB USE ONLY**

Sample Temperature: **4.7**

REMARKS: **Standard TAT**

RUSH: Same Day 24 hr  48 hr  72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

#148

ORIGINAL COPY



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

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July 18, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 16:10.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent "C" and "K".

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:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 3 (H233696-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.36	118	2.00	0.817	
Toluene*	<0.050	0.050	07/17/2023	ND	2.31	116	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.23	111	2.00	0.905	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.91	115	6.00	0.493	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	<b>768</b>	16.0	07/18/2023	ND	416	104	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	07/18/2023	ND	175	87.5	200	0.899	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	177	88.3	200	0.0447	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/17/2023	Sampling Date:	07/14/2023
Reported:	07/18/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 9 (H233696-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.36	118	2.00	0.817	
Toluene*	<0.050	0.050	07/17/2023	ND	2.31	116	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.23	111	2.00	0.905	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.91	115	6.00	0.493	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	336	16.0	07/18/2023	ND	416	104	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	07/18/2023	ND	175	87.5	200	0.899	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	177	88.3	200	0.0447	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

July 19, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 13:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 8 (4.5') (H233722-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2023	ND	2.02	101	2.00	1.43		
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95		
Total BTEX	<0.300	0.300	07/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	3280	16.0	07/19/2023	ND	432	108	400	0.00	QM-07	

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	07/19/2023	ND	173	86.6	200	2.72		
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669		
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND						

Surrogate: 1-Chlorooctane 51.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 1 (H233722-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2023	ND	2.02	101	2.00	1.43		
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95		
Total BTEX	<0.300	0.300	07/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	720	16.0	07/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72		
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669		
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND						

Surrogate: 1-Chlorooctane 50.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 2 (H233722-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2023	ND	2.02	101	2.00	1.43		
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95		
Total BTEX	<0.300	0.300	07/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	416	16.0	07/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72		
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669		
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND						

Surrogate: 1-Chlorooctane 53.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 17 (H233722-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/18/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	704	16.0	07/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 50.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.3 % 49.1-148

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\*=Accredited Analyte

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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:	07/18/2023	Sampling Date:	07/17/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 18 (H233722-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43		
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95		
Total BTEX	<0.300	0.300	07/19/2023	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	<b>640</b>	16.0	07/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72		
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669		
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND						

Surrogate: 1-Chlorooctane 55.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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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:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 11 (H233722-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<b>320</b>	16.0	07/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 58.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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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:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 13 (H233722-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43		
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49		
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95		
Total BTEX	<0.300	0.300	07/19/2023	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	<b>240</b>	16.0	07/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72		
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669		
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND						

Surrogate: 1-Chlorooctane 55.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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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:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 15 (H233722-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	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	288	16.0	07/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 51.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.2 % 49.1-148

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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:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 16 (H233722-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	07/19/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 49.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain 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:

EVGSAU-3440-002 Flowline Release Rem

281-755-8965

Project Location:

Lea County, NM

Project #:

212C-HN-02255 Task 100

Invoice to:

Attn: Bryce Wagoner

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

\* NO sample - sporadically 7/18/23

LAB #	H233782
LAB USE ONLY	
SAMPLE IDENTIFICATION	

YEAR 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		
	BH-8 (4.5)		X	X	X	X		X
	SW-1	7/17/2023						X
	SW-2	7/17/2023	X	X	X	X		X
	SW-17	7/17/2023	X	X	X	X		X
	SW-18	7/17/2023	X	X	X	X		X
	SW-11	7/18/2023	X	X	X	X		X
	SW-13	7/18/2023	X	X	X	X		X
	SW-14	7/18/2023	X	X	X	X		X
	SW-15	7/18/2023	X	X	X	X		X
	SW-16	7/18/2023	X	X	X	X		X

Relinquished by:	Mark Anderson V.	Date:	7-18-23	Time:	13:14	Received by:	Shou Torres	Date:	7/18/23	Time:	13:15
Relinquished by:		Date:		Time:		Received by:		Date:		Time:	

Relinquished by:		Date:		Time:		Received by:		Date:		Time:	
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### 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	

LAB USE ONLY

Sample Temperature

4.9°C #141b

REMARKS: Standard TAT

- RUSH: Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



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---

July 19, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 15:58.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/18/2023	Sampling Date:	07/18/2023
Reported:	07/19/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 14 (H233733-01)**

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	07/19/2023	ND	2.12	106	2.00	2.12	
Toluene*	<0.050	0.050	07/19/2023	ND	2.09	105	2.00	0.704	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.21	111	2.00	0.468	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.61	110	6.00	0.264	
Total BTEX	<0.300	0.300	07/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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
<b>Chloride</b>	<b>112</b>	16.0	07/19/2023	ND	448	112	400	3.64	

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	07/19/2023	ND	200	100	200	6.57	
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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---

July 24, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 13:04.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/20/2023	Sampling Date:	07/20/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 1 (H233789-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43		
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	576	16.0	07/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90		
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63		
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND						

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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- RPD Relative Percent Difference
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Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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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) 582-4559  
Fax (432) 582-3946

Client Name: **Maverick** Site Manager: **Chuck Terhune**

Project Name: **EVGSAU 3440-002** (281) 755-8965

Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**

Invoice to: **chuck.terhune@tetratech.com** 212C-HN-02255

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Miguel A. Flores**

Comments:

LAB # <b>H23-3789</b> LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
	SW-1		7/20/2023		X		X				

Relinquished by: <b>Miguel A Flores</b>	Date:	Time:	Received by: <b>Spencer</b>	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)	
<input checked="" type="checkbox"/>	PAH 8270C	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Volatiles	
<input type="checkbox"/>	TCLP Semi Volatiles	
<input type="checkbox"/>	RCI	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input type="checkbox"/>	PCB's 8082 / 608	
<input type="checkbox"/>	NORM	
<input type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input type="checkbox"/>	Chloride Sulfate TDS	
<input type="checkbox"/>	General Water Chemistry (see attached list)	
<input type="checkbox"/>	Anion/Cation Balance	
<input type="checkbox"/>	Hold	

LAB USE ONLY

REMARKS: Standard

RUSH: Same Day **2 hr**

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **5.72**

**#440**

ORIGINAL COPY



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

---

July 24, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 13:04.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 3 (H233790-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	160	16.0	07/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 5 (H233790-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	352	16.0	07/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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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:	07/20/2023	Sampling Date:	07/19/2023
Reported:	07/24/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 7 (H233790-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	384	16.0	07/21/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

July 27, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 11:30.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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Sincerely,

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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:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 23 (H233897-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	224	16.0	07/26/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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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:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 22 (H233897-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75		
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18		
Total BTEX	<0.300	0.300	07/26/2023	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	96.0	16.0	07/26/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	174	86.8	200	10.2		
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37		
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND						

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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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:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 21 (H233897-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	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
<b>Chloride</b>	<b>128</b>	16.0	07/26/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	174	86.8	200	10.2	
<b>DRO &gt;C10-C28*</b>	<b>66.9</b>	10.0	07/26/2023	ND	187	93.7	200	4.37	
<b>EXT DRO &gt;C28-C36</b>	<b>67.9</b>	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 11 (4.5') (H233897-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	<b>160</b>	16.0	07/26/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	174	86.8	200	10.2	
<b>DRO &gt;C10-C28*</b>	<b>16.3</b>	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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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:	07/26/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 10 (4.5') (H233897-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	1.95	97.7	2.00	4.75	
Toluene*	<0.050	0.050	07/26/2023	ND	1.88	93.9	2.00	5.79	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.96	98.2	2.00	4.83	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	5.18	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	368	16.0	07/26/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	174	86.8	200	10.2	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	187	93.7	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- 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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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) 692-4559  
Fax (432) 692-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: EVGSAU-3440-002 Flowline Release Rem

281-755-8965

[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Project Location: Lea County, NM

Project #:

212C-HN-02255 Task 200

Invoice to:

Attn: Bryce Wagoner

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

### 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

H233897  
LAB #  
LAB USE ONLY

### SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			
1	SW-23	7/21/2023		X				X			X
2	SW-22	7/21/2023		X				X			X
3	SW-21	7/21/2023		X				X			X
4	BH-11 (4.5)	7/21/2023		X				X			X
5	BH-10 (4.5)	7/21/2023		X				X			X

Inquished by: *[Signature]* Date: 7-21-23 Time: 16:35

Inquished by: *[Signature]* Date: 7-24-23 Time: 11:32

Received by: *[Signature]* Date: 7-24-23 Time: 11:30

Received by: *[Signature]* Date: 7-24-23 Time: 11:30

LAB USE ONLY

Sample Temperature: 3.9°C

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

#140

ORIGINAL COPY



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July 28, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 16:49.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 26 (H233964-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	336	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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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:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 16 (5.0') (H233964-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>944</b>	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 14 (5.0') (H233964-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2280	16.0	07/28/2023	ND	416	104	400	0.00	QM-07

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	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	49.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	10.3	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 19 (H233964-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95		
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22		
Total BTEX	<0.300	0.300	07/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	07/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84		
DRO >C10-C28*	26.5	10.0	07/28/2023	ND	198	99.1	200	4.17		
EXT DRO >C28-C36	19.0	10.0	07/28/2023	ND						

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 20 (H233964-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	368	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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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:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 18 (H233964-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	368	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 17 (H233964-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.19	110	2.00	2.95	
Toluene*	<0.050	0.050	07/28/2023	ND	2.11	105	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.02	101	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.07	101	6.00	1.22	
Total BTEX	<0.300	0.300	07/28/2023	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	1010	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	97.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	99.1	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain 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:

EVGSAU- 3440-002 Flowline Release Rem

281-755-8965

Project Location:

Lea County, NM

[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

212C-HN-02255 Task 200

Invoice to:

Attn: Bryce Wagoner

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

H2339164  
LAB #  
(LAB USE ONLY)

### SAMPLE IDENTIFICATION

YEAR	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
2023	7/27/2023		X		X				
	BH-16 (5.0')		X		X				
	BH-14 (5.0')		X		X				
	SW-19	7/26/2023	X		X				
	SW-20	7/26/2023	X		X				
	SW-18	7/26/2023	X		X				
	SW-17	7/26/2023	X		X				

Relinquished by: Jorge Fernandez

Date: 7-27-23 Time: 16:49

Relinquished by:

Date: 7-27-23 Time: 16:49

Relinquished by:

Date: Time:

Received by:

Date: 7-27-23 Time: 16:49

Received by:

Date: Time:

### ANALYSIS REQUEST

(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	
<input checked="" type="checkbox"/>	PAH 8270C	
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Volatiles	
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	
<input checked="" type="checkbox"/>	RCI	
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input checked="" type="checkbox"/>	PCB's 8082 / 608	
<input checked="" type="checkbox"/>	NORM	
<input checked="" type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)	
<input checked="" type="checkbox"/>	Anion/Cation Balance	
<input checked="" type="checkbox"/>	Hold	

LAB USE ONLY

Sample Temperature

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

REMARKS: Standard TAT

(Circle) HAND DELIVERED FEDEX UPS Tracking #

#140

ORIGINAL COPY



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July 31, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 16:02.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 21 (H234002-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	07/31/2023	ND	432	108	400	7.69	

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	07/29/2023	ND	184	92.2	200	3.25	
<b>DRO &gt;C10-C28*</b>	<b>40.7</b>	10.0	07/29/2023	ND	188	94.2	200	5.96	
<b>EXT DRO &gt;C28-C36</b>	<b>45.2</b>	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 24 (H234002-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	48.0	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 65.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 28 (H234002-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	432	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.8 % 49.1-148

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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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 12 (4.5') (H234002-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2023	ND	2.10	105	2.00	1.13	
Toluene*	<0.050	0.050	07/29/2023	ND	2.03	101	2.00	3.02	
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	1.97	98.5	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/29/2023	ND	5.91	98.5	6.00	3.16	
Total BTEX	<0.300	0.300	07/29/2023	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	400	16.0	07/31/2023	ND	432	108	400	3.64	

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 13 (5.0') (H234002-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2023	ND	2.10	105	2.00	1.13		
Toluene*	<0.050	0.050	07/29/2023	ND	2.03	101	2.00	3.02		
Ethylbenzene*	<0.050	0.050	07/29/2023	ND	1.97	98.5	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/29/2023	ND	5.91	98.5	6.00	3.16		
Total BTEX	<0.300	0.300	07/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	2880	16.0	07/31/2023	ND	432	108	400	3.64		

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	07/29/2023	ND	184	92.2	200	3.25		
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96		
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND						

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Notes and Definitions

- 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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*Celey D. Keene*

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: EVGSAU-3440-002 Flowline Release Rem 281-755-8965

Project Location: Lea County, NM Project #: chuck.terhune@tetratech.com

Invoice to: Atn: Bryce Wagener 212C-HN-02255 Task 200

Receiving Laboratory: Cardinal Labs Sampler Signature: Jorge Fernandez

Comments:

LAB # H234002

(LAB USE ONLY)

SAMPLE IDENTIFICATION

YEAR: 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
	7/28/2023		X				X		
	7/28/2023		X				X		
	7/28/2023		X				X		
	7/28/2023		X				X		
	7/28/2023		X				X		

LAB USE ONLY	REMARKS:	Standard TAT
<input checked="" type="checkbox"/> RUSH: Same Day		24 hr
<input type="checkbox"/> Rush Charges Authorized		48 hr
<input type="checkbox"/> Special Report Limits or TRRP Report		72 hr

ANALYSIS REQUEST  
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature: 2.4°C

#140

ORIGINAL COPY



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---

August 07, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 08/03/23 16:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	08/03/2023	Sampling Date:	08/02/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 25 (H234138-01)**

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	08/05/2023	ND	2.06	103	2.00	2.63	
Toluene*	<0.050	0.050	08/05/2023	ND	1.96	98.2	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.03	102	2.00	1.88	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.96	99.4	6.00	2.77	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
<b>DRO &gt;C10-C28*</b>	<b>39.4</b>	10.0	08/04/2023	ND	187	93.4	200	3.91	
<b>EXT DRO &gt;C28-C36</b>	<b>36.6</b>	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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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:	08/03/2023	Sampling Date:	08/02/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 15 (5.0') (H234138-02)**

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	08/05/2023	ND	2.06	103	2.00	2.63	
Toluene*	<0.050	0.050	08/05/2023	ND	1.96	98.2	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.03	102	2.00	1.88	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.96	99.4	6.00	2.77	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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
<b>Chloride</b>	<b>1170</b>	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
<b>DRO &gt;C10-C28*</b>	<b>22.2</b>	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 4 (H234138-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	480	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 6 (H234138-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	480	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 8 (H234138-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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
<b>Chloride</b>	<b>240</b>	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
<b>DRO &gt;C10-C28*</b>	<b>67.7</b>	10.0	08/04/2023	ND	187	93.4	200	3.91	
<b>EXT DRO &gt;C28-C36</b>	<b>51.5</b>	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 10 (H234138-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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
<b>Chloride</b>	<b>160</b>	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
<b>DRO &gt;C10-C28*</b>	<b>16.3</b>	10.0	08/04/2023	ND	187	93.4	200	3.91	
<b>EXT DRO &gt;C28-C36</b>	<b>10.5</b>	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 200	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 17 (H234138-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.17	109	2.00	0.550	
Toluene*	<0.050	0.050	08/05/2023	ND	2.10	105	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.06	103	2.00	0.413	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.18	103	6.00	0.653	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	400	16.0	08/07/2023	ND	432	108	400	3.64	

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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W.W. 1st 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:

EVGSALU-3440-002 Flowline Release Rem

281-755-8965

Project Location:  
(country, state)

Lea County, NM

Project #:

chuck.terhune@tetratech.com

212C-HN-02255 Task 200

Invoice to:

Attn: Bryce Wagoner

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

LAB #  
H234138  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
1	8/2/2023		X				X		
2	8/2/2023		X				X		
3	8/3/2023		X				X		
4	8/3/2023		X				X		
5	8/3/2023		X				X		
6	8/3/2023		X				X		
7	8/3/2023		X				X		

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/>	Standard TAT
<input type="checkbox"/>	RUSH: Same Day 24 hr
<input type="checkbox"/>	Rush Charges Authorized
<input type="checkbox"/>	Special Report Limits or TRRP Report

ANALYSIS REQUEST  
(Circle or Specify Method No.)

Relinquished by: *[Signature]*  
Date: 8-3-23  
Time: 11:00

Received by: *[Signature]*  
Date: 8/3/23  
Time: 1035

ORIGINAL COPY



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---

August 09, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 3440-002 FLOWLINE RELEASE REM

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 15:50.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 27 (H234238-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.14	107	2.00	3.20	
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 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	80.0	16.0	08/09/2023	ND	416	104	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	08/09/2023	ND	165	82.5	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	155	77.5	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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\*=Accredited Analyte

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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:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 3440-002 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02255 TASK 100	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 8 (H234238-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2023	ND	2.14	107	2.00	3.20	
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	80.0	16.0	08/09/2023	ND	416	104	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	08/09/2023	ND	165	82.5	200	2.76	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	155	77.5	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 57.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 582-4559  
Fax (432) 582-3946

Client Name: Maverick Natural Resources  
Site Manager: Chuck Terhune  
Project Name: EVGSAU- 3440-002 Flowline Release Rem  
281-755-8965  
Project Location: Lea County, NM  
Project #: chuck.terhune@tetratech.com  
212C-HN-02255 Task 200

Invoice to: Attn: Bryce Wagoner  
Receiving Laboratory: Cardinal Labs  
Sampler Signature: Jorge Fernandez

Comments:

H2342338  
LAB #  
LAB USE ONLY

SAMPLE IDENTIFICATION

YEAR-2023	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
1	SW-27		X						
2	SW-8	8/8/2023	X			X			

Relinquished by: [Signature] Date: 8-8-23 Time: 1550  
 Relinquished by: [Signature] Date: [Blank] Time: [Blank]  
 Relinquished by: [Signature] Date: [Blank] Time: [Blank]

ANALYSIS REQUEST  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO - MRO)	
<input checked="" type="checkbox"/>	PAH 8270C	
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Volatiles	
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	
<input checked="" type="checkbox"/>	RCI	
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input checked="" type="checkbox"/>	PCB's 8082 / 608	
<input checked="" type="checkbox"/>	NORM	
<input checked="" type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)	
<input checked="" type="checkbox"/>	Anion/Cation Balance	
<input checked="" type="checkbox"/>	Hold	

LAB USE ONLY  
Sample Temperature: 2.3°C  
REMARKS: Standard TAT  
 RUSH: Same Day 24 hr 48 hr 72 hr  
 Rush Charges Authorized  
 Special Report Limits or TRRP Report  
 #140

ORIGINAL COPY  
Send to: Steve.Jester@TetraTech.com

Interim Remediation Report and Revised Additional Remediation Work Plan  
Maverick Permian, LLC  
EVGSAU 3440-002 Flowline Releases  
Incident IDs: nRH2003532478 and nAPP2129936218

August 16, 2024

## **ATTACHMENT 6: NMSLO SEED MIXTURE DETAILS**

**NMSLO Seed Mix****Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<b>Forbs:</b>			
Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
<b>Total PLS/acre</b>		<b>18.0</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 377008

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nRH2003532478
Incident Name	NRH2003532478 EAST VACUUM 3440-002 @ 30-025-03008
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-03008] EAST VACUUM (GSA) UNIT #002H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	EAST VACUUM 3440-002
Date Release Discovered	01/02/2020
Surface Owner	State

<b>Incident Details</b>	
<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

<b>Nature and Volume of Release</b>	
<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	Cause: Corrosion   Pipeline (Any)   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 54 BBL   Recovered: 0 BBL   Lost: 54 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)	None

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QUESTIONS, Page 2

Action 377008

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<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	Not answered.

*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 Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 08/23/2024
--	--

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QUESTIONS, Page 3

Action 377008

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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)	Zero feet, overlying, or within area
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Zero feet, overlying, or within area
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	Yes

**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
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.	
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)	8480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16550
GRO+DRO (EPA SW-846 Method 8015M)	14440
BTEX (EPA SW-846 Method 8021B or 8260B)	49.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	09/30/2024
On what date will (or did) the final sampling or liner inspection occur	01/10/2025
On what date will (or was) the remediation complete(d)	01/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	21700
What is the estimated volume (in cubic yards) that will be reclaimed	21700
What is the estimated surface area (in square feet) that will be remediated	21700
What is the estimated volume (in cubic yards) that will be remediated	1500

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 377008

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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 Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 08/23/2024
--	--

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 377008

**QUESTIONS (continued)**

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	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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 377008

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>354539</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>07/18/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>1</b>
What was the sampling surface area in square feet	<b>140</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	<b>No</b>
--	-----------

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CONDITIONS

Action 377008

**CONDITIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 377008
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions. Confirmation soil samples must consist of five-point composite samples from the side walls and base, representing a surface area of no more than 200 ft2. Confirmation samples should be tested for all Table 1 constituents. A variance is approved to re-use the non waste containing soil that was hauled in to cover the previously excavated areas, providing that laboratory results are below <50 feet to groundwater Table 1 standards. This soil must be sampled at a frequency of one 5-point composite sample per 100 cubic yards of soil. Submit remediation closure report to the OCD by 11/29/2024.	8/27/2024