



March 28, 2024

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

**Subject: Remediation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Unit Letter H, Section 33, Township 17 South, Range 35 East  
Lea County, New Mexico  
Incident ID# nPAC0715048707**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips (COP) to assess a historical crude oil release that occurred at the Satellite #6 flare pit. The Satellite #6 flare pit is located approximately 0.4 miles northeast of the Satellite #6 facility and approximately 75 feet east of the EVGSAU 3333-007 well (API No. 30-025-26682). The release footprint is located in the Public Land Survey System (PLSS) Unit Letter H, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.79137°, -103.45428°, as shown in **Figure 1** and **Figure 2**. In 2022 Maverick Permian LLC (Maverick) acquired the Site from COP, began operating the Site in June 2022, and undertook the remediation activities described in this report.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on November 29, 2006. The unplanned oil release originated from a controller associated with the East Vacuum Grayburg-San Andres Unit (EVGSAU) Central Tank Battery (CTB) free water knockout (FWKO) valve. The EVGSAU CTB FWKO gas vent valve controller malfunctioned causing the FWKO valve to open, causing a pressure loss that allowed crude oil to release into the EVLRP/CO<sub>2</sub> Plant and eventually discharge to the Satellite #6 flare pit. The release consisted of 74 barrels (bbls) of oil into the 20-foot by 35-foot dry caliche flare pit. During immediate response actions, a vacuum truck recovered 70 bbls of free liquid. The release was subsequently assigned Incident ID nPAC0715048707. The release extent is shown in **Figure 3**. This release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD fully executed on May 9, 2019. The original C-141 Form associated with this release is available in the NMOCD Permitting portal under Incident ID nPAC0715048707.

## SITE CHARACTERIZATION

### Receptors

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

**Tetra Tech, Inc.**

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### Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are seven (7) water wells within 800 meters of the release Site. According to the NMOSE reporting system, the average depth to groundwater is 60 feet below ground surface (bgs) in the vicinity of the site, however, this depth to groundwater is based on groundwater data that is greater than 25 years old. Tetra Tech verified the depth to water characterization as greater than 51 feet with a 55 foot soil boring performed by Basin Environmental Service Technologies (Basin) in 2016.

On February 11, 2016, Basin and White Drilling advanced soil boring SB-2 on the Vacuum ABO Battery #3 facility (fPAC0603854647). SB-2 is located at 32.787554, -103-449746, approximately 0.38 miles southeast of the nPAC0715048707 remediation area and was advanced to a total depth of 55 feet bgs. During soil boring advancement Basin collected soil samples for analysis of chloride and Total Petroleum Hydrocarbons (TPH). Basin did not identify groundwater upper 55 feet to verify groundwater is a depth of greater than 55 feet bgs at the Site.

Groundwater characterization data is included in **Attachment 1** and the Basin boring log for SB-2 is included in **Attachment 2**.

### Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam with a published soil profile of gravelly loam from the surface to 0.33 feet below ground surface (bgs), loam from 0.33 to 0.83 feet bgs, and cemented material from 0.83 to 6.67 feet bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

### REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the Remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

**Closure Criteria for Soils Impacted by a Release**

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

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Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

#### Reclamation Requirements

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

### INITIAL RESPONSE ACTIVITIES

The spill was caused by the CTB FWKO gas vent valve controller freezing which caused the FWKO valve to open bleeding the vessel pressure down to 18psi which allowed the crude oil to go to the EVLRP/C02 Plant & Satellite #6 flare pit. 74 bbls of oil was released into the 20-ft by 35-ft dry caliche flare pit. During immediate response actions, a vacuum truck recovered 70 bbls of free liquid.

### SITE ASSESSMENT SUMMARY

Tetra Tech conducted a visual Site inspection on behalf of COP in July 2020 to evaluate current Site conditions. Heavy surficial hydrocarbon staining was noted on the interior floor inside of the earthen containment berm located at the release coordinates recorded in association with the Incident ID. The containment was identified as the Satellite #6 flare pit. It was unclear whether the observed staining inside the pit was directly attributable to the 2006 release. No evidence of remediation or reclamation activities were observed at the Site. Photographic documentation of the release area during the June 2020 Site inspection was provided in the COP *Revised Release Characterization and Remediation Work Plan* submitted to NMOCD in July 2021 and again on July 21, 2023.

Tetra Tech conducted soil sampling at the Site on January 13 and February 5, 2021, to achieve vertical and horizontal delineation of the release. One (1) boring (BH-1) was installed on the caliche well pad immediately outside of the pit berm using an air rotary drilling rig to a depth of 20 feet bgs. The interior of the pit was inaccessible with the drilling rig given the exterior berm and a perimeter fence. One (1) hand auger boring (AH-1) was advanced in the interior of the release extent within the pit berm to a depth of 1.5 feet bgs. Hand auger refusal was encountered at 1.5 feet bgs. Four (4) hand auger borings (AH-2 through AH-5) were advanced along the perimeter of the release to various depths to horizontally delineate the release extent.

Soils at the Site consist of approximately 1.5 feet of brown silty clay underlain by a caliche cap rock. **Table 1** details soil assessment locations and **Figure 3** depicts the release extent and the soil assessment locations. Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. A total of 14 samples were collected from the six (6) borings (BH-1 and AH-1 through AH-5) and submitted to Pace Analytical Laboratory (Pace) in Mount Juliet, Tennessee for analysis of BTEX by Method 8260B, TPH by Method 8015M, and chloride by Method 300.0.

Soil assessment laboratory analytical results are presented in **Table 2** screened against Reclamation Requirements. The laboratory analytical data package and chain-of-custody documentation were submitted to the NMOCD in the *Revised Release Characterization and Remediation Work Plan* dated July 7, 2021, and are available from the NMOCD Permitting Portal under Incident ID nPAC0715048707.

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## 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. 153982. Ms. Christine Kendrick of SWCA conducted the survey on September 27, 2023, which included an intensive pedestrian survey of the EVGSAU Satellite #6 Gas Vent Line Release remediation site and immediate vicinity covering 1.97 acres, which included a 100-ft cultural resources buffer around the location.

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

## REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on December 11, 2023, and concluded on January 24, 2024. Maverick's subcontractor, McNabb used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 4 bgs as shown in **Figure 4**. 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 538 cubic yards of contaminated soil from an approximately 3,300 square-foot area and transported the soil to R360 Halfway Disposal and Landfill in Hobbs, New Mexico for offsite disposal.

### Notification of Sampling

On January 31, 2024, Tetra Tech notified the NMOCD of confirmation sampling in accordance with 19.15.29.12(D)(1)(a) NMAC. The notification is included in the OCD online files under this incident number. On January 11 through 24, 2024.

### Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips requested an alternative confirmation sampling plan representative of no more than approximately 500 square feet of excavated area in the *COP Revised Release Characterization and Remediation Work Plan*. The NMOCD approved the *COP Release Characterization and Remediation Work Plan* on July 21, 2023, including approval of an alternative sampling variance of sidewall and floor samples representative of no more than 400 Square feet.

### Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 19 final confirmation samples from two (2) 4-foot deep excavations including six (6) floor samples and 13 side wall samples from the excavated areas. The remediation excavation confirmation sampling areas were comprised of an approximately 3,300 square foot base and 1,175 square feet of sidewall for a total area of 4,475 square feet and a sampling density of approximately one confirmation sample per 236 square feet.

confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico (Cardinal) for analysis of BTEX by method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements for samples collected from depths above 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported constituent concentrations as less than Remediation RRALs, and clean margins were demonstrated. Confirmation sampling locations and excavation

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extents are shown in **Figure 4**. Confirmation sampling laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 2** and **Table 3** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 4**.

### **Excavation Backfill**

Subsequent to the receipt of confirmation sample analytical results, McNabb completed backfilling of the excavated areas with 500 cubic yards of clean soil and caliche sourced from Boyd Pit between January 25 and 26, 2024. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 7**. The backfilled areas were then graded and compacted to restore the facility pad surface.

### **RECLAMATION AND REVEGETATION**

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil and caliche. The release and remediation did not impact the pastureland or areas off-pad. The disturbed areas have been graded back to match the facility pad surface. The remediation site will be reclaimed and revegetated when the facility is decommissioned and the facility pad reclamation is performed.

### **VARIANCE REQUEST**

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. The remediation associated with this incident was conducted concurrently with a number of other remediations during the 2023 holiday period between Thanksgiving and the 2024 New Year. Tetra Tech failed to notify the NMOCD of Additional Remediation sampling two business days in advance in accordance with 19.15.29.12.D.(1).(a). Tetra Tech respectfully requests a variance for the failure to notify the NMOCD of sampling in consideration of the significant changes to the NMOCD notification process and changes that were implemented by the NMOCD in early December 2023.

Tetra Tech has reviewed the C-141N notification process and NMOCD *Public Notice Implementation of Digital C-141 and Incident Statuses* document dated December 1, 2023, and has shifted to strictly adhering to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance.

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## CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with chloride concentrations greater than Reclamation Requirements and/or RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with NMSLO approved seed mixture; therefore, Site remediation is complete. If you have any questions concerning the remediation activities for the Site, please contact Chris Straub by email at [Chris.Straub@tetrattech.com](mailto:Chris.Straub@tetrattech.com) or phone at (832) 251-5180.

Sincerely,



Chris Straub  
Project Manager  
Tetra Tech, Inc.



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

cc: Bryce Wagoner, Maverick Permian, LLC  
New Mexico State Land Office

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## LIST OF ATTACHMENTS

### Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Remediation Extent

### Tables

- Table 1 – Soil Assessment Locations
- Table 2 – Summary of Analytical Results – Soil Assessment Sampling
- Table 3 – Summary of Shallow Soil Analytical Results – Confirmation Sampling
- Table 4 – Summary of Deep Soil Analytical Results – Confirmation Sampling

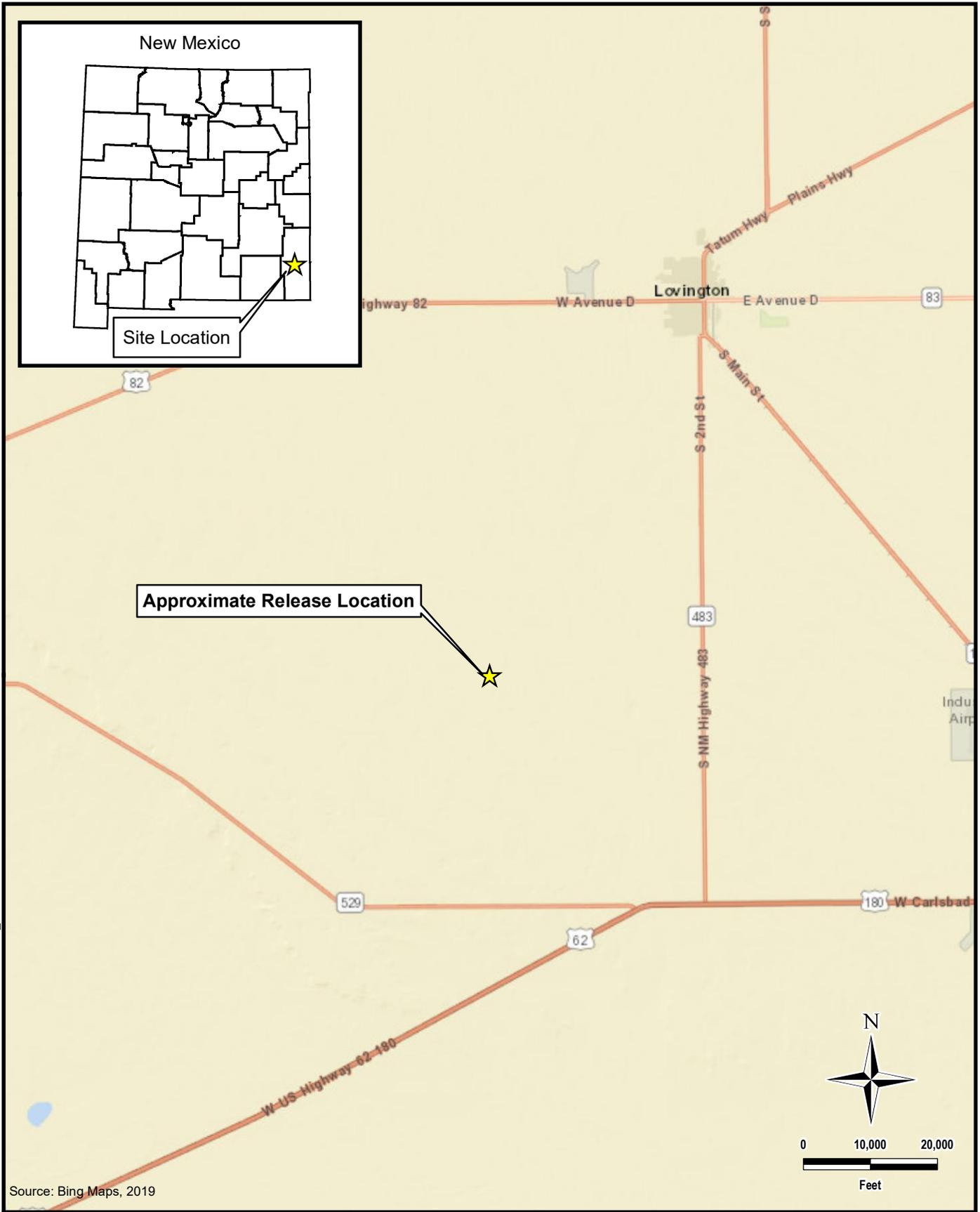
### Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Boring Logs
- Attachment 3 – Cultural Resources Survey Cover Sheet
- Attachment 4 – Laboratory Analytical Data
- Attachment 5 – Photographic Documentation

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## FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1399\FIGURE 1 OVERVIEW\_1RP-13991.MXD

Source: Bing Maps, 2019

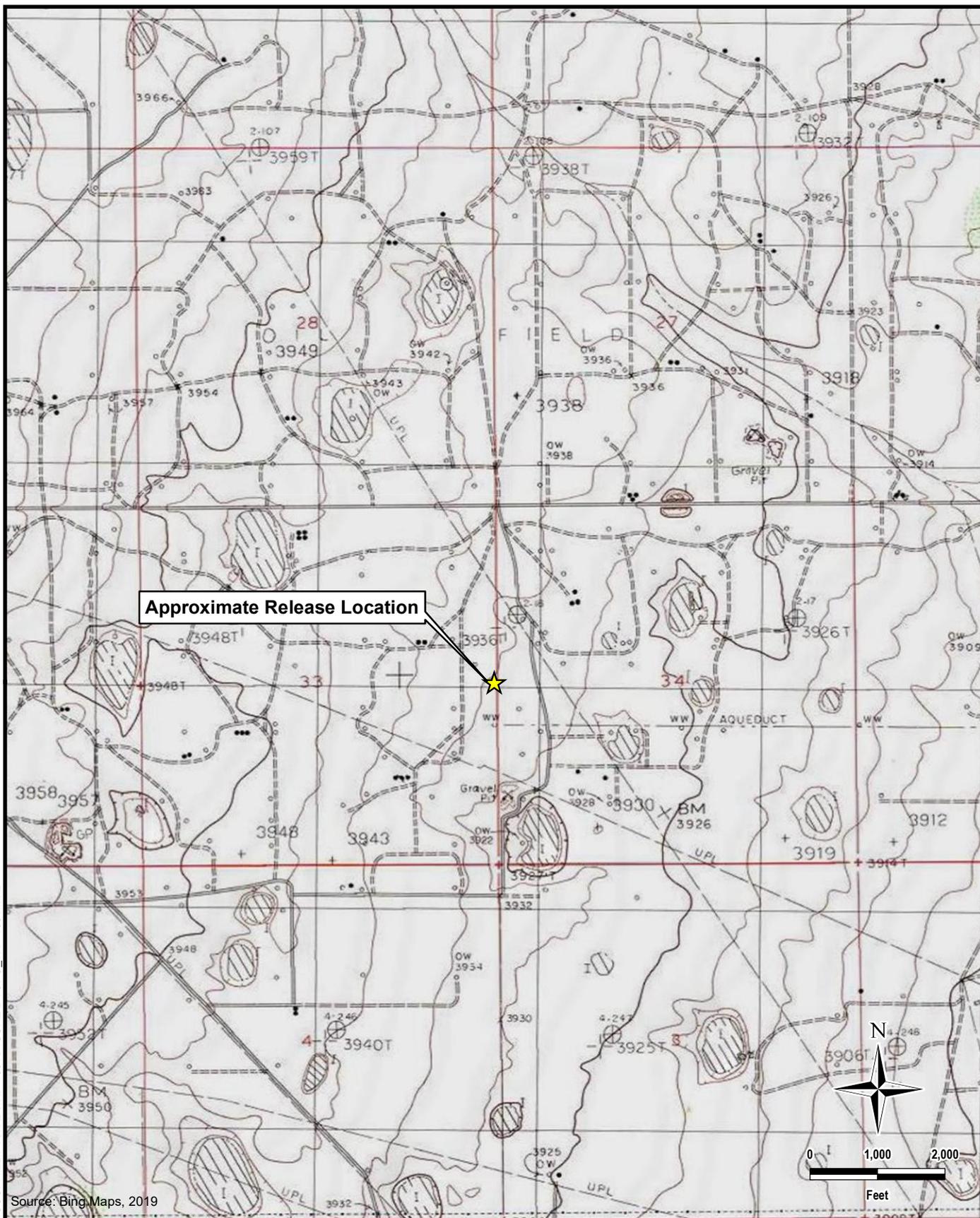
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**MAVERICK PERMIAN, LLC**  
 nPAC0715048707  
 (32.811064°, -103.775078°)  
 LEA COUNTY, NEW MEXICO

**EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
 OVERVIEW MAP**

PROJECT NO.: 212C-MD-03321  
 DATE: March 28, 20024  
 DESIGNED BY: AAM

Figure No.  
**1**



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-1391\FIGURE 2 TOPO -1RP-1391.MXD

Source: Bing Maps, 2019



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nPAC0715048707  
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LEA COUNTY, NEW MEXICO

**EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
TOPOGRAPHIC MAP**

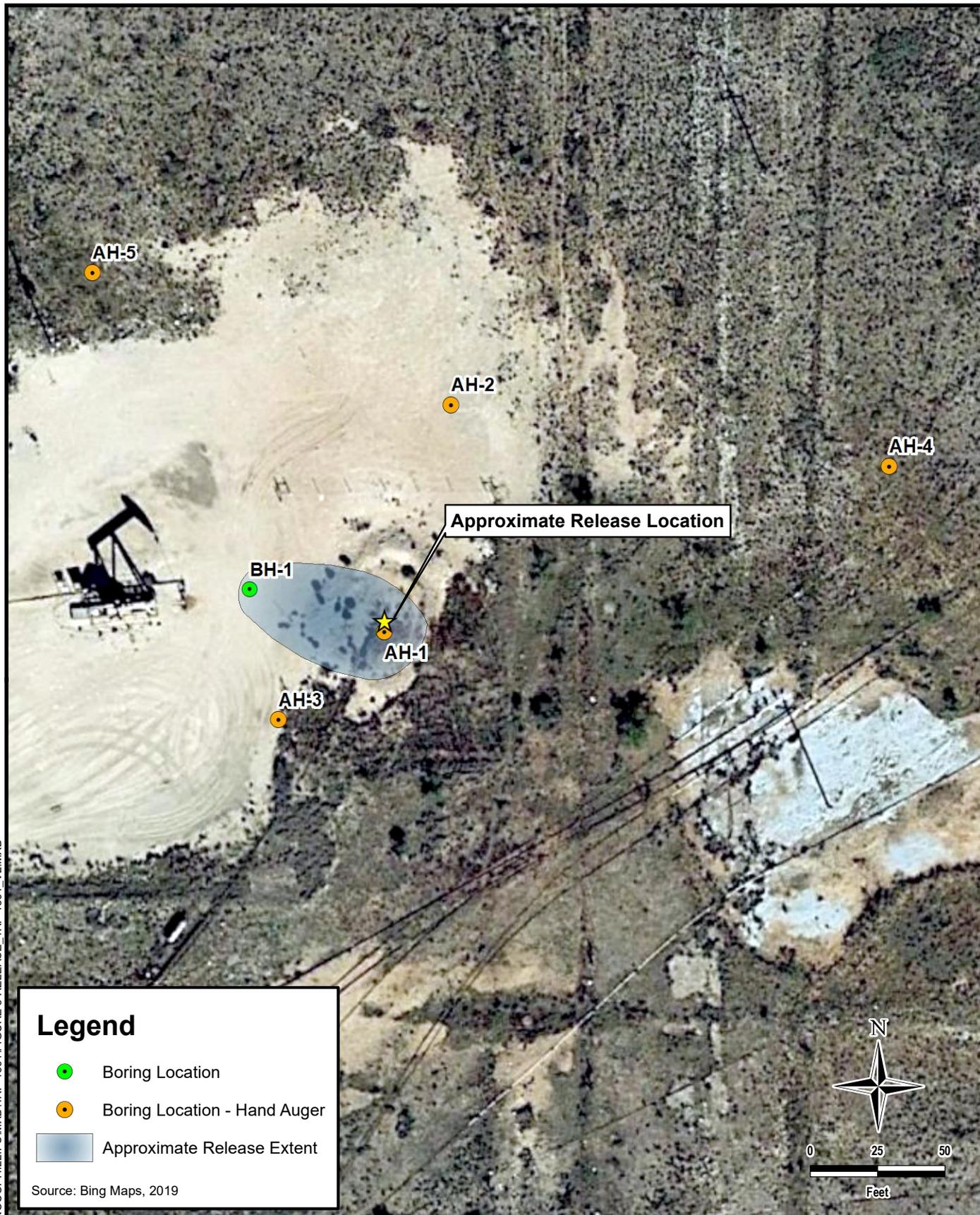
PROJECT NO.: 212C-MD-03321

DATE: MARCH 28, 2024

DESIGNED BY: AAM

Figure No.

**2**



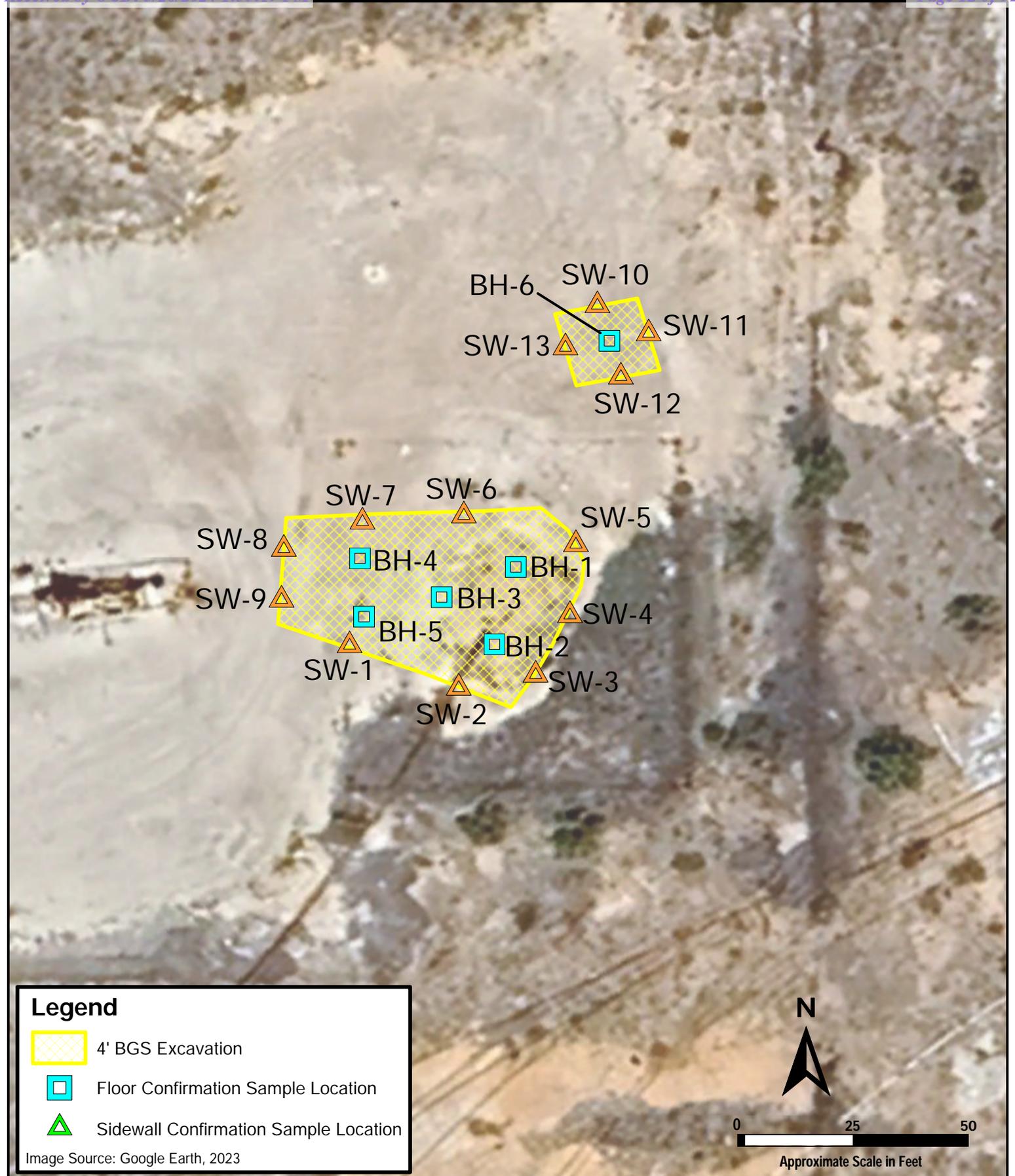
### Legend

- Boring Location
- Boring Location - Hand Auger
- Approximate Release Extent

Source: Bing Maps, 2019

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\IRP-1399\FIGURE 3 RELEASE - IRP-1399\_V2.MXD

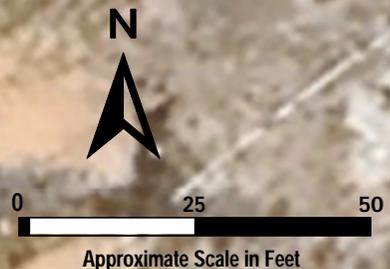
 <b>TETRA TECH</b> <small>www.tetrattech.com          901 West Wall Street, Suite 100          Midland, Texas 79701          Phone: (432) 682-4559          Fax: (432) 682-3946</small>	<b>MAVERICK PERMIAN, LLC</b> <small>nPAC0715048707          (32.791377°, -103.454283°)          LEA COUNTY, NEW MEXICO</small>	PROJECT NO.: 212C-MD-03321
	<b>EVGSAU SATELLITE #6 GAS VENT LINE RELEASE          APPROXIMATE RELEASE EXTENT</b>	DATE: MARCH 28, 2024 DESIGNED BY: AAM
		Figure No. <b>3</b>



**Legend**

-  4' BGS Excavation
-  Floor Confirmation Sample Location
-  Sidewall Confirmation Sample Location

Image Source: Google Earth, 2023



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**MAVERICK PERMIAN, LLC**  
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**EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
REMEDATION EXTENT**

PROJECT NO: 212C-MD-03321  
DATE: MARCH 28, 2024  
DESIGNED BY: CHT

Figure No.  
**4**

Remediation Report and Closure Report  
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## TABLES



**TABLE 1  
SOIL ASSESSMENT LOCATIONS  
INCIDENT NPAC0715048707  
MAVERICK PERMIAN, LLC  
EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
LEA COUNTY, NEW MEXICO**

<b>Boring ID</b>	<b>Date</b>	<b>Latitude</b>	<b>Longitude</b>
AH-1	1/13/2021	32.791366	-103.454283
AH-2	1/13/2021	32.791596	-103.454201
AH-3	1/13/2021	32.791277	-103.454412
AH-4	1/14/2021	32.791530	-103.453673
AH-5	2/5/2021	32.791734	-103.454632
BH-1	1/13/2021	32.791410	-103.454446



**TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENTS SAMPLING - INCIDENT NPAC0715048707  
MAVERICK PERMIAN, LLC  
EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
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		ORO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	(GRO+DRO+ORO)
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				
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>							<b>50</b>						<b>100</b>			
AH-1	1/13/2021	0-1.5	509		0.763		< 0.0677	J3	11.3	V	8.04	J5	20.1		509		14,100		10,500		<b>25,109</b>
AH-2	1/13/2021	0-1	<b>806</b>		< 0.00112		< 0.00559		< 0.0028		< 0.00727		-		< 0.106		< 4.24		0.935	B J	0.935
		3-4	<b>1,460</b>		< 0.00112		< 0.00561		< 0.0028		< 0.00729		-		< 0.106		< 4.24		0.635	B J	0.635
AH-3	1/13/2021	0-1	318		< 0.00114		< 0.0057		< 0.00285		< 0.00741		-		< 0.107		7.11		7.02	B	7.02
		3-4	237		< 0.00113		< 0.00565		< 0.00283		< 0.00735		-		< 0.106		< 4.26		1.12	B J	1.12
AH-5	2/5/2021	0-1	< 10.1		< 0.0012		< 0.00598		< 0.00299		< 0.00777		-		0.0733	B J	10.4		11.6		22.1
BH-1	1/13/2021	0-1	<b>5,030</b>	V	< 0.000564	J	< 0.00623		0.00203	J	0.00589	J	0.008484		0.209		690		752		<b>1,442</b>
		2-3	<b>1,190</b>		< 0.00116		< 0.0058		< 0.0029		< 0.00754		-		0.0657	B J	13.7		18.6		32.4
		4-5	<b>1,180</b>		< 0.0011		< 0.00551		< 0.00275		< 0.00716		-		< 0.105		9.46		6.49		16
		6-7	<b>674</b>		< 0.00113		< 0.00563		< 0.00281		< 0.00732		-		< 0.106		8.34		7.03		15.4
		9-10	263		< 0.0012		< 0.00598		< 0.00299		< 0.00777		-		< 0.110		4.83		3.41	J	8.24
		14-15	75.7		< 0.00124		< 0.00619		< 0.0031		< 0.00805		-		< 0.112		3.17	J	2.13	J	5.3
		19-20	128		< 0.00122		< 0.00609		< 0.00304		< 0.00791		-		< 0.111		< 4.43		0.566	J	0.566
BH-3	1/14/2021	0-1	< 21.1		< 0.00111		< 0.00555		< 0.00277		< 0.00721		-		< 0.105		3.51	J	14.9		18.4

**NOTES:**

bgs: Below ground surface  
 mg/kg: Milligrams per kilogram  
 TPH: Total Petroleum Hydrocarbons  
 J: The reported value is an estimate  
 J5: The sample matrix interfered with the ability to make any accurate determination; spike value is low

GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 ORO: Oil Range Organics

1: Method 300.0  
 2: Method 8260B  
 3: Method 8015M

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

B: The same analyte is found in the associated blank  
 V: The sample concentration is too high to evaluate accurate spike recoveries



**TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT ID nPAC0715048707  
MAVERICK PERMIAN, LLC  
EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
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>			
SW - 1	1/12/2024	0.0 - 4.0	<b>704</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 1	1/19/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 2	1/12/2024	0.0 - 4.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 3	1/11/2024	0.0 - 4.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<b>26.4</b>		<b>34.7</b>		<b>61.1</b>
SW - 4	1/11/2024	0.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.1		10.2		21.3
SW - 5	1/12/2024	0.0 - 4.0	<b>1,230</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 5	1/19/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 6	1/12/2024	0.0 - 4.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 7	1/12/2024	0.0 - 4.0	<b>1,200</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<b>10.1</b>		<b>&lt;10.0</b>		<b>10.1</b>
SW - 7	1/19/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 8	1/19/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 9	1/19/2024	0.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 10	1/19/2024	0.0 - 4.0	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 11	1/19/2024	0.0 - 4.0	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 12	1/19/2024	0.0 - 4.0	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 13	1/19/2024	0.0 - 4.0	<b>704</b>		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0
SW - 13	1/24/2024	0.0 - 4.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0

**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).**  
**Area was overexcavated and resampled to achieve clean margins.**



**TABLE 3  
SUMMARY OF ANALYTICAL RESULTS  
DEEP CONFIRMATION SAMPLING - INCIDENT ID nPAC0715048707  
MAVERICK PERMIAN, LLC  
EVGSAU SATELLITE #6 GAS VENT LINE RELEASE  
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		TPH GRO + DRO	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		
<b>RRALs (Table I 19.15.29.12 NMAC)</b>			<b>10,000</b>		<b>10</b>							<b>50</b>							<b>1,000</b>	<b>2,500</b>		
BH - 1 (4.0')	1/12/2024	4.0 - 4.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		93.8		47.7		93.8	141.5
BH - 2 (4.0')	1/12/2024	4.0 - 4.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		236		109		236.0	345
BH - 3 (4.0')	1/12/2024	4.0 - 4.5	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH - 4 (4.0')	1/12/2024	4.0 - 4.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH - 5 (4.0')	1/12/2024	4.0 - 4.5	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH - 6 (4.0')	1/19/2024	4.0 - 4.5	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14.4		<10.0		14.4	14.4

**NOTES:**

bgs: Below ground surface      GRO: Gasoline Range Organics      1: Method SM4500CI-B  
 mg/kg: Milligrams per kilogram      DRO: Diesel Range Organics      2: Method 8021B  
 TPH: Total Petroleum Hydrocarbons      ORO: Oil Range Organics      3: Method 8015M

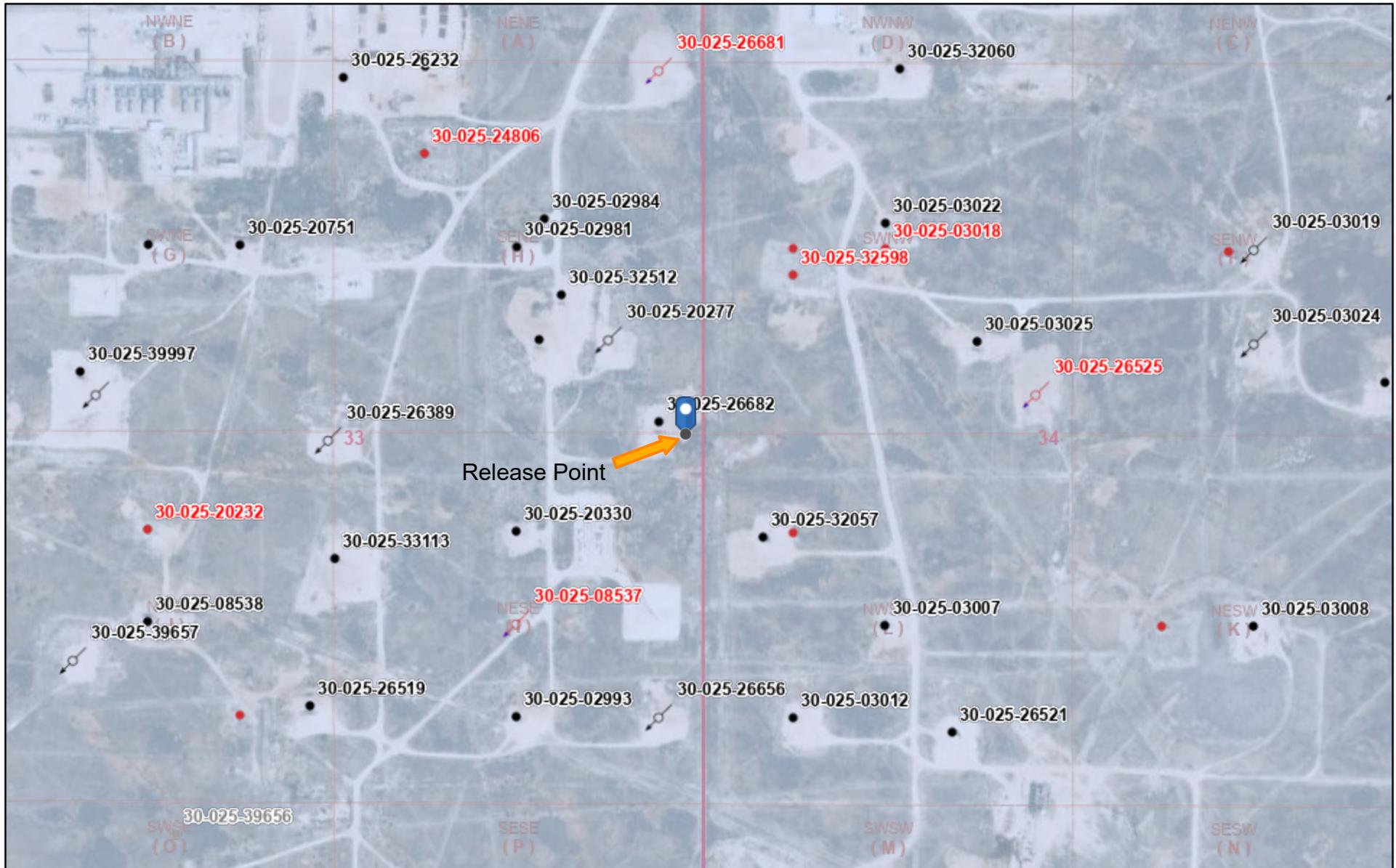
**Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.**

Remediation Report and Closure Report  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Incident ID# nPAC0715048707

March 28, 2024

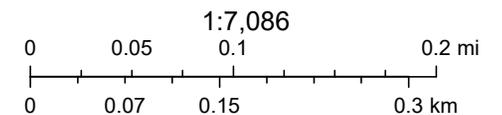
## **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**

# EVGSAU Satellite #6 Gas Vent Line Release OCD Well Locations



2/15/2024, 4:08:30 PM

- Override 1
- PLSS Second Division
- PLSS First Division
- Low
- Wells - Large Scale
- Oil, Active
- Oil, Cancelled
- Oil, Plugged
- Karst Occurrence Potential
- Injection, Plugged
- Injection, Active



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE,

New Mexico Oil Conservation Division

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

# EVGSAU Satellite #6 Gas Vent Line Release OSE POD Location Map



2/16/2024, 9:01:50 AM

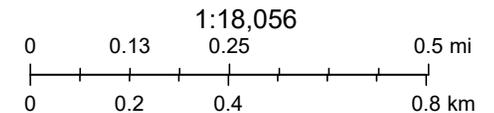
GIS WATERS PODs

- Active
- Pending

- Inactive
- Plugged
- 

- OSE District Boundary
- Closure Area

- Artesian Planning Area
- New Mexico State Trust Lands
- Both Estates



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">L 05834</a>	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	132	160	70	90
<a href="#">L 05834 POD5</a>		L	LE	2	2	4	33	17S	35E	644663	3629109*	132	234	65	169
<a href="#">L 04633</a>		L	LE	2	4	33	17S	35E	644564	3629010*	271	130	65	65	
<a href="#">L 10297</a>		L	LE	1	1	34	17S	35E	644955	3629819*	640	150	42	108	
<a href="#">L 04618</a>		L	LE	3	3	34	17S	35E	644973	3628611*	647	128	55	73	
<a href="#">L 04775</a>		L	LE	4	1	34	17S	35E	645365	3629421*	656	133	68	65	
<a href="#">L 04578</a>		L	LE				33	17S	35E	643962	3629198*	779	126	60	66

Average Depth to Water: **60 feet**  
 Minimum Depth: **42 feet**  
 Maximum Depth: **70 feet**

**Record Count: 7**

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

**Easting (X):** 644741.779

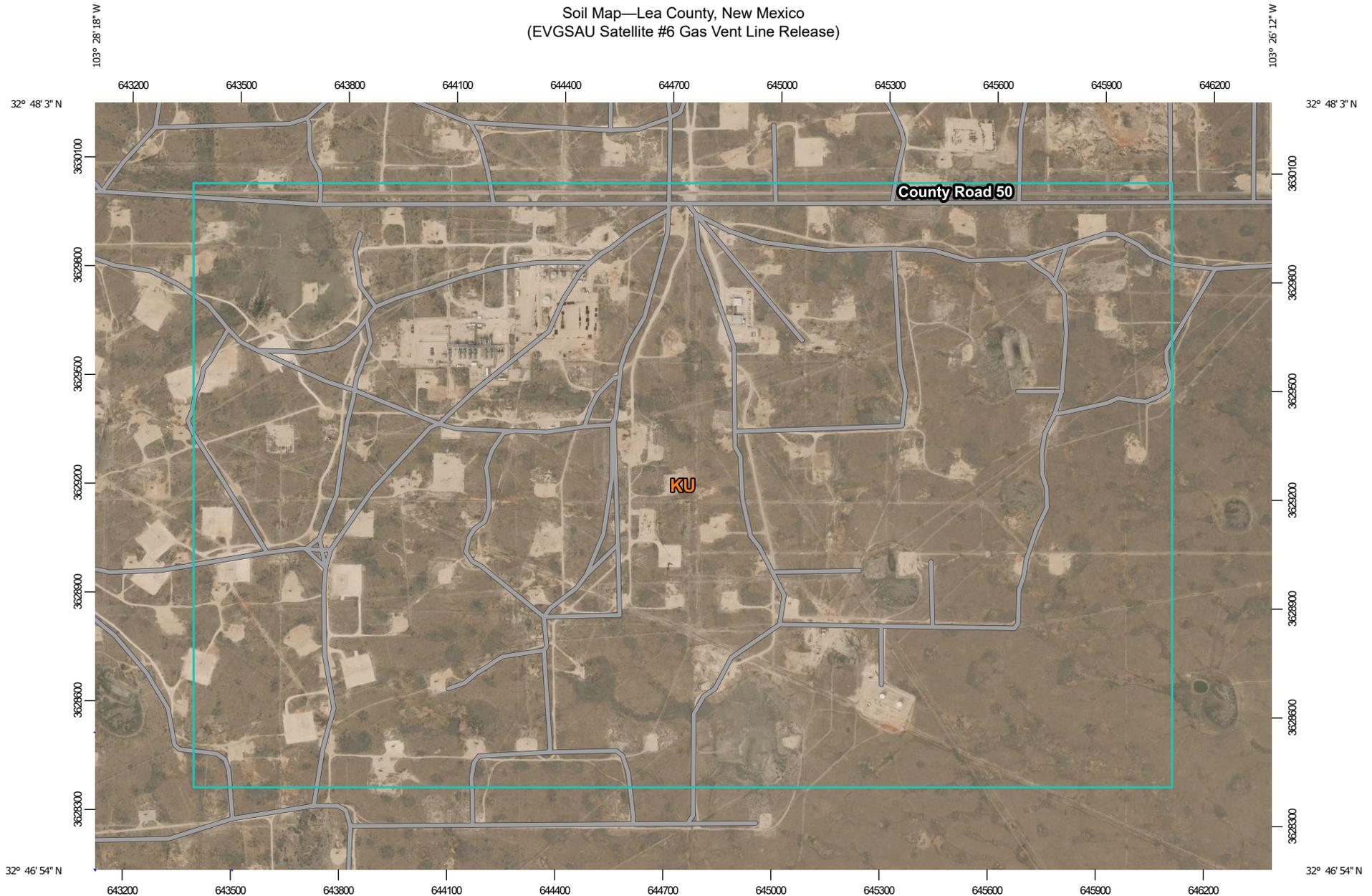
**Northing (Y):** 3629215.54

**Radius:** 800

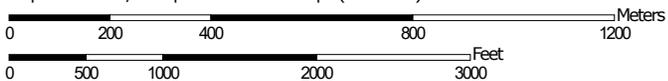
\*UTM location was derived from PLSS - see Help

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.

Soil Map—Lea County, New Mexico  
(EVGSAU Satellite #6 Gas Vent Line Release)



Map Scale: 1:14,900 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Soil Map—Lea County, New Mexico  
(EVGSAU Satellite #6 Gas Vent Line Release)

**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.

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 20, Sep 6, 2023

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.

## 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	1,122.5	100.0%
<b>Totals for Area of Interest</b>		<b>1,122.5</b>	<b>100.0%</b>

## Map Unit Description

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 in this report, 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, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components 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. Some minor components, however, have properties and behavior 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.

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*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given 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.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

## 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

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU Satellite #6 Gas Vent Line Release

*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:* Very 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

### Description of Lea

#### Setting

*Landform:* Plains

*Down-slope shape:* Convex

*Across-slope shape:* Linear

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU Satellite #6 Gas Vent Line Release

*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**

##### **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

##### **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

##### **Spraberry**

*Percent of map unit:* 6 percent

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU Satellite #6 Gas Vent Line Release

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*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

## Data Source Information

Soil Survey Area: Lea County, New Mexico

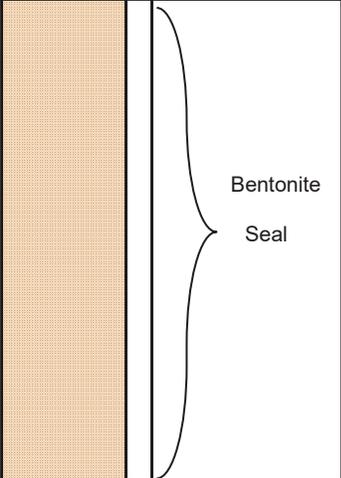
Survey Area Data: Version 20, Sep 6, 2023

Remediation Report and Closure Report  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Incident ID# nPAC0715048707

March 28, 2024

## **ATTACHMENT 2 – BORELOGS**



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				

Remediation Report and Closure Report  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Incident ID# nPAC0715048707

March 28, 2024

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

# NMCRIS Investigation Abstract Form (NIAF)

**NMCRIS Activity No. 153982**

**HPD Log No(s).**

## Registration

**Lead Agency:** NM State Land Office

**Performing Agency:** SWCA Environmental Consultants

**Activity ID:** 84277

**Performing Agency Report No:** 23-677

**Other Agencies:**

**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:** 1.97

**Total Tribal Acreage:** 0.00

**Total Resources Visited:** 0

Remediation Report and Closure Report  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Incident ID# nPAC0715048707

March 28, 2024

## **ATTACHMENT 4 – LABORATORY ANALYTICAL DATA**



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

---

January 16, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE #6

Enclosed are the results of analyses for samples received by the laboratory on 01/12/24 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	01/12/2024	Sampling Date:	01/11/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 3 (H240143-01)**

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	01/12/2024	ND	2.13	107	2.00	1.06	
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2024	ND	416	104	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	01/13/2024	ND	187	93.3	200	1.72	
<b>DRO &gt;C10-C28*</b>	<b>26.4</b>	10.0	01/13/2024	ND	179	89.5	200	0.112	
<b>EXT DRO &gt;C28-C36</b>	<b>34.7</b>	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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:	01/12/2024	Sampling Date:	01/11/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 4 (H240143-02)**

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	01/12/2024	ND	2.13	107	2.00	1.06	
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	01/12/2024	ND	416	104	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	01/13/2024	ND	187	93.3	200	1.72	
<b>DRO &gt;C10-C28*</b>	<b>11.1</b>	10.0	01/13/2024	ND	179	89.5	200	0.112	
<b>EXT DRO &gt;C28-C36</b>	<b>10.2</b>	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 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

- 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

# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Maverick Natural Resources

Chuck Terhune

EVGSAU Satellite #6

281-755-8965

Lea County, NM

212C-MD-03321

Attn: Chuck Terhune

Cardinal Labs

Jorge Fernandez

**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 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 checked="" type="checkbox"/>	Chloride Sulfate TDS	
<input type="checkbox"/>	General Water Chemistry (see attached list)	
<input type="checkbox"/>	Anion/Cation Balance	

**SAMPLE IDENTIFICATION**

I#	USE	YEAR	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
			DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
1			1/11/2024		X			X			X
2			1/11/2024		X			X			X

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

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

**LAB USE ONLY**

Sample Temperature

0.7i

#140

**REMARKS:** Standard TAT

RUSH: Same Day 24 hr  48 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY



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

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January 16, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE #6

Enclosed are the results of analyses for samples received by the laboratory on 01/15/24 11:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 1 ( 4.0' ) (H240159-01)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
<b>DRO &gt;C10-C28*</b>	<b>93.8</b>	10.0	01/15/2024	ND	166	82.9	200	1.78	
<b>EXT DRO &gt;C28-C36</b>	<b>47.7</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 2 ( 4.0' ) (H240159-02)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
<b>DRO &gt;C10-C28*</b>	<b>236</b>	10.0	01/15/2024	ND	166	82.9	200	1.78	
<b>EXT DRO &gt;C28-C36</b>	<b>109</b>	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 3 ( 4.0' ) (H240159-03)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 4 ( 4.0' ) (H240159-04)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 5 ( 4.0' ) (H240159-05)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>848</b>	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 1 (H240159-06)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 2 (H240159-07)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/15/2024	ND	416	104	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 5 (H240159-08)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	01/15/2024	ND	416	104	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 6 (H240159-09)**

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/15/2024	ND	416	104	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 7 (H240159-10)**

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	01/15/2024	ND	2.05	102	2.00	3.29		
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1200</b>	16.0	01/15/2024	ND	416	104	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	01/15/2024	ND	176	88.0	200	4.03		
<b>DRO &gt;C10-C28*</b>	<b>10.1</b>	10.0	01/15/2024	ND	166	82.9	200	1.78		
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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 Satellite #6** Project #: **281-755-8965**

Project Location: **Lea County, NM** [chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Invoice to: **Attn: Chuck Terhune**

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			

1	BH-1 (4.0')	1/12/2024		X				X			
2	BH-2 (4.0')	1/12/2024		X				X			
3	BH-3 (4.0')	1/12/2024		X				X			
4	BH-4 (4.0')	1/12/2024		X				X			
5	BH-5 (4.0')	1/12/2024		X				X			
6	SW-1	1/12/2024		X				X			
7	SW-2	1/12/2024		X				X			
8	SW-5	1/12/2024		X				X			
9	SW-6	1/12/2024		X				X			
10	SW-7	1/12/2024		X				X			

Inquired by: *[Signature]* Date: **1-14-24** Time: **11:23**

Received by: *[Signature]* Date: **1-14-24** Time: **18:47**

Inquired by: *[Signature]* Date: **1-15-24** Time: **11:23**

Received by: *[Signature]* Date: **1-14-24** Time: **18:50**

Received by: *[Signature]* Date: **1-15-24** Time: **11:24**

### 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

**LAB USE ONLY**

Sample Temperature: **-0.1°C**

REMARKS: **Standard TAT**

RUSH: Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



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---

January 22, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE #6

Enclosed are the results of analyses for samples received by the laboratory on 01/19/24 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 1 (H240233-01)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 5 (H240233-02)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 7 (H240233-03)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 8 (H240233-04)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 9 (H240233-05)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 10 (H240233-06)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 11 (H240233-07)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 12 (H240233-08)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 13 (H240233-09)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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:	01/19/2024	Sampling Date:	01/19/2024
Reported:	01/22/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 6 (4') (H240233-10)**

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	01/19/2024	ND	1.63	81.5	2.00	16.5	
Toluene*	<0.050	0.050	01/19/2024	ND	1.73	86.7	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/19/2024	ND	1.74	86.9	2.00	16.6	
Total Xylenes*	<0.150	0.150	01/19/2024	ND	5.28	88.0	6.00	16.7	
Total BTEX	<0.300	0.300	01/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2360</b>	16.0	01/19/2024	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	01/19/2024	ND	212	106	200	2.18	
<b>DRO &gt;C10-C28*</b>	<b>14.4</b>	10.0	01/19/2024	ND	209	105	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Site Name: **Maverick**

Site Manager: **Chuck Terhune**

Project Name: **EVGSAU Satellite No.6**

(281) 755-8965

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

Project Location: **Lea County, NM**

Project #:

212C-MD-03321

Project Location (city, state): **Lea County, NM**

Project Location (address): **chuck.terhune@tetratech.com**

Project Location (lab): **Cardinal Labs**

Sampler Signature:

**Miguel A. Flores**

LAB # **1240833**

LAB USE **LAB USE ONLY**

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2024							
1	SW-1			1/19/2024		X	X	X	
2	SW-5			1/19/2024		X	X	X	
3	SW-7			1/19/2024		X	X	X	
4	SW-8			1/19/2024		X	X	X	
5	SW-9			1/19/2024		X	X	X	
6	SW-10			1/19/2024		X	X	X	
7	SW-11			1/19/2024		X	X	X	
8	SW-12			1/19/2024		X	X	X	
9	SW-13			1/19/2024		X	X	X	
10	BH-6 (4')			1/19/2024		X	X	X	

Received by: **Miguel A Flores** Date: **1/19/24** Time: **11:50**

Received by: **Shou Cienow** Date: **1/19/24** Time: **11:50**

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

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

LAB USE ONLY

REMARKS: **Standard**

RUSH: Same Day **24 hr**  48 hr  72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **28**

(Circle) HAND DELIVERED FEDEX UPS Tracking #: **#140**

ANALYSIS REQUEST  
(Circle or Specify Method No.)

ORIGINAL COPY



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

---

January 25, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU SATELLITE #6

Enclosed are the results of analyses for samples received by the laboratory on 01/24/24 11:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	01/24/2024	Sampling Date:	01/24/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	EVGSAU SATELLITE #6	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03321	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW -13 (H240314-01)**

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	01/24/2024	ND	2.11	106	2.00	2.82	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	2.11	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	1.79	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.37	106	6.00	1.58	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/24/2024	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	01/25/2024	ND	207	104	200	2.95	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	201	101	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 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

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*

Celey D. Keene, Lab Director/Quality Manager

# Tetra Tech, Inc.

901 W. Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name: EVGSAU Satellite #6

281-755-8965

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

Location: Lea County, NM

Project #:

212C-MD-03321

Attn: Chuck Terhune

Laboratory: Cardinal Labs

Sampler Signature:

Jorge Fernandez

### SAMPLE IDENTIFICATION

Sample #	Year	Date	Time	SAMPLING		MATRIX				PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
				DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			
1	2023	1/24/2024				X				X			

### 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	

### LAB USE ONLY

Sample Temperature

8.1°C

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

#1410

Remediation Report and Closure Report  
Maverick Permian, LLC  
EVGSAU Satellite #6 Gas Vent Line Release  
Incident ID# nPAC0715048707

March 28, 2024

## **ATTACHMENT 5 – PHOTOGRAPHIC DOCUMENTATION**

N

NE

E

SE

0

30

60

90

120

150

☉ 74°E (T) LAT: 32.791379 LON: -103.454387 ±3m ▲ 1195m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:22 MST



☉ 74°E (T) LAT: 32.791389 LON: -103.454365 ±3m ▲ 1195m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:28 MST



☉ 74°E (T) LAT: 32.791391 LON: -103.454362 ±4m ▲ 1195m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:33 MST

N

NE

E

SE

0

30

60

90

120

150

☉ 74°E (T) LAT: 32.791405 LON: -103.454312 ±4m ▲ 1195m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:40 MST



☉ 74°E (T) LAT: 32.791413 LON: -103.454317 ±3m ▲ 1196m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:44 MST



☉ 135°SE (T) LAT: 32.791405 LON: -103.454414 ±4m ▲ 1197m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 12 2024, 15:38:56 MST

S

SW

W

NW

180

210

240

270

300

330

☉ 251°W (T) LAT: 32.791586 LON: -103.454115 ±4m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 24 2024, 10:06:24 MST

W

NW

N

NE

270

300

330

0

30

60

☉ 345°N (T) LAT: 32.791499 LON: -103.454143 ±4m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 24 2024, 10:06:32 MST

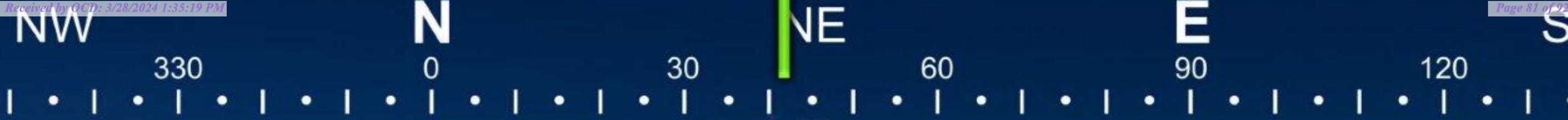


☉ 63°NE (T) LAT: 32.791529 LON: -103.454229 ±3m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 24 2024, 10:06:41 MST



☉ 42°NE (T) LAT: 32.791198 LON: -103.454393 ±4m ▲ 1202m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 26 2024, 12:12:08 MST

N NE E SE

0 30 60 90 120 150

☉ 82°E (T) LAT: 32.791248 LON: -103.454408 ±4m ▲ 1201m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 26 2024, 12:12:19 MST

NE

E

SE

S

S

60

90

120

150

180

210

☉ 129°SE (T) LAT: 32.791494 LON: -103.454458 ±4m ▲ 1203m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 26 2024, 12:12:37 MST

NE

E

SE

S

30

60

90

120

150

180

☉ 101°E (T) LAT: 32.791576 LON: -103.454317 ±4m ▲ 1202m



Site Remediation  
Tetra Tech

Maverick- EVGSAU Satellite #6  
Jan 26 2024, 12:12:57 MST

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 327827

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nPAC0715048707
Incident Name	NPAC0715048707 EAST VACUUM (GSA) UNIT #007 @ 30-025-26682
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-26682] EAST VACUUM (GSA) UNIT #007

**Location of Release Source**

Please answer all the questions in this group.

Site Name	EAST VACUUM (GSA) UNIT #007
Date Release Discovered	11/30/2006
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

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.

Crude Oil Released (bbls) Details	Cause: Freeze   Separator   Crude Oil   Released: 74 BBL   Recovered: 40 BBL   Lost: 34 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-9720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 327827

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 Email: chuck.terhune@tetrattech.com Date: 03/28/2024
--	--

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199 Action Number: 327827 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
--	--

**QUESTIONS**

**Site Characterization**  
 Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
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)	Between 1000 (ft.) and ½ (mi.)
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 300 and 500 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
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)	1230
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	61.1
GRO+DRO	(EPA SW-846 Method 8015M)	26.4
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
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	12/11/2023
On what date will (or did) the final sampling or liner inspection occur	01/24/2024
On what date will (or was) the remediation complete(d)	01/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	3300
What is the estimated volume (in cubic yards) that will be reclaimed	538
What is the estimated surface area (in square feet) that will be remediated	3300
What is the estimated volume (in cubic yards) that will be remediated	538

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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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 327827

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <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 Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 03/28/2024
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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 327827

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 327827

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	327827
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>327138</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>11/12/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>10</b>
What was the sampling surface area in square feet	<b>2400</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>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>3300</b>
What was the total volume (cubic yards) remediated	<b>538</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>3300</b>
What was the total volume (in cubic yards) reclaimed	<b>538</b>
Summarize any additional remediation activities not included by answers (above)	<b>No Additional</b>

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

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

I hereby agree and sign off to the above statement	Name: <a href="#">Chuck Terhune</a> Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 03/28/2024
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Action 327827

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 327827

**CONDITIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 327827
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
crystal.walker	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/4/2024
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/4/2024