



July 1, 2024

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

**Re: Remediation & Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Leak  
Unit Letter L2, Section 05, Township 18 South, Range 35 East  
Lea County, New Mexico  
Incident ID# nAPP2310150208**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to assess and remediate a release that occurred from a subsurface flow line associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 0546-038. The release footprint is located near Jay Lane in Public Land Survey System (PLSS) Unit Letter L2, Section 05, Township 18 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.782555°, -103.477691° as shown in **Figure 1** and **Figure 2**.

## BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on February 24, 2023. The C-141 reports that the release occurred due to internal corrosion of a subsurface production flow line leading to a 4 barrel (bbl) spill of crude oil and a 10 bbl spill of produced water off-pad. Approximately 1 bbl of produced water and 1 bbl of crude oil were reported as recovered by a vac-truck during the initial response. The NMOCD received the Initial C-141 on April 21, 2023, and subsequently assigned the release Incident ID nAPP2310150208. The initial C-141 Release notification form is available from the NMOCD Permitting portal under incident nAPP2310150208.

## SITE CHARACTERIZATION

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

### Receptors

Tetra Tech identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). According to the NMOCD Oil and Gas Map online, the Site is in an area of low karst potential.

### Depth to Groundwater

According to the New Mexico Office of State Engineer's (NMOSE) Reporting System, there are four (4) water wells within ½ mile of the Site with an average depth to groundwater of 72 feet below ground surface (bgs), ranging from 60 to 85 feet bgs. None of the currently available depths to groundwater was recorded in the last 25 years.

**Tetra Tech, Inc.**

1500 CityWest Boulevard, Suite 1000, Houston, Texas 77042

**Tel** +1.832.251.5160 | [tetratech.com/oga](http://tetratech.com/oga) | [tetratech.com](http://tetratech.com)

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## Soils

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

## REGULATORY FRAMEWORK

Based upon the release footprint 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 proven depth to water and distances to potential receptors, and in accordance with Table I of 19.15.29.12 NMAC, the following remediation RRALs for the Site are the default Reclamation Requirements for groundwater that cannot be sufficiently proven to be greater than 50 feet bgs:

**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 release occurred due to internal corrosion of a surface production flow line consisting of an approximately 5,465 square foot area in open pasture, as shown in **Figure 3**. According to site records, initial response actions were taken by Maverick at the release site on March 9, 2023. Maverick responded to the site by removing standing fluid and making an initial excavation/scrape of approximately the uppermost 6 inches of impacted material. The scraped material was transported to R360 Halfway Disposal and Landfill for disposal.

## SITE ASSESSMENT

On April 7, 2023, Tetra Tech personnel mobilized to the Site to conduct soil sampling to delineate the release extent and confirm the efficacy of the reported remediation activities conducted during the initial response. A total of 12 hand auger borings were installed to achieve horizontal delineation of the release. Hand auger borings (AH-1 through AH-12) were installed along the perimeter of the reported release extent to depths ranging from 0 to 1 foot bgs to horizontally delineate the release. Hand auger refusal was encountered at approximately 1-foot bgs due to consolidated hardpan material. Soil Assessment boring locations are detailed in **Table 1** and depicted in **Figure 4**.

Results from the April 7, 2023, soil sampling event are summarized in **Table 2**. The laboratory reported concentrations of BTEX, TPH, and chloride as less than the Reclamation Requirements in samples AH-1, AH-2, AH-6, AH-9, and AH-10. The remaining samples reported chloride and/or TPH concentrations as greater than Reclamation Requirements.

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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. 152941. Robin Cordero of SWCA conducted the survey on May 14, 2023, which included an intensive pedestrian survey of the EVGSAU 0546-038 remediation site and immediate vicinity covering 2.49 acres, which included a 100-ft cultural resources buffer around the location.

No archaeological sites or historic properties were observed during the cultural resources investigation. No additional investigation or treatment was recommended regarding the undertaking. No subsurface cultural materials were encountered during remediation. The cover page from the Class III Cultural Resources Survey is included in **Attachment 2**.

## REMEDIATION WORK PLAN

Based on the analytical results from the assessment, Maverick proposed to remove the impacted material above Reclamation Requirements within the release extent. Impacted soils were proposed to be excavated using heavy equipment to an approximate depth of between 2 and 4 feet below the surrounding surface until representative samples from the excavation sidewalls and the floor of the excavation report concentrations of TPH, BTEX, and chloride as less than Reclamation Requirements.

## ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, Maverick requested an alternative confirmation sampling plan that included 25 confirmation floor samples and eight (8) confirmation sidewall samples for verification of remedial activities for an excavation anticipated to cover 10,240 square feet. On August 1, 2023, The NMOCD approved the Remediation Work Plan including the Alternative Confirmation Sampling Plan as written.

## REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on March 19, 2024, and concluded on April 4, 2024. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation area to depths of 2, 3, and 4 feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 1240 cubic yards of contaminated soil from four excavations with an approximate total area of 10,600 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 3**.

## Confirmation Sampling Notification

On March 15, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD Permitting portal up to and including final confirmation sampling at the Site performed on April 4, 2024. Sampling notification was conducted in accordance with 19.15.29.12(D)(1)(a) NMAC and the Energy, Minerals and Natural Resources Department (EMNRD) Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions dated December 1, 2023. Sample notifications are available in the NMOCD Portal under Incident ID nAPP2310150208.

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## Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 36 final confirmation samples including 25 5-point composite floor samples and 11 five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling areas were comprised of two 2-foot-deep excavations, two 3-foot-deep excavations, and one 4-foot deep excavation with an approximately 10,600 square foot base and 600 square feet of sidewall for a total area of 11,200 square feet from which 36 confirmation samples were collected for a sampling density of approximately one sample per 311 square feet.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Initial floor confirmation samples FS-12 (2.0), FS-16 (2.0), FS-21 (2.0), FS-23 (2.0), and FS-25 (2.0) collected from 2.0 to 2.5 feet bgs reported chloride concentrations as greater than Reclamation Requirements and sidewall confirmation samples SW-1, SW-4, and SW-9 reported chloride or TPH concentrations as greater than Reclamation Requirements. Base sample locations were subsequently over-excavated to 3 feet bgs and re-sampled, and FS-25 was excavated again further to 4.0 feet bgs. Sidewall locations were expanded and resampled. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements demonstrating clean margins.

Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3** and laboratory analytical data packages including chain of custody documentation remediation confirmation sampling are included in **Attachment 4**.

## Excavation Backfill

Between April 5 and 6, 2024, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with clean soil. McNabb sourced 1,070 cubic yards of clean topsoil from Seth Boyd Pit.

## Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas in the pasture have been backfilled with clean topsoil. The disturbed areas have been graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and raked in per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 5**.

Site inspections will be performed periodically to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

Revegetation will be considered complete once uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels or a vegetative cover approved by NMSLO. Upon completion of Revegetation, Tetra Tech will prepare and submit a Revegetation Report in accordance with the EMNRD Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions requirements.



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## CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with TPH, BTEX, or chloride concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite and the excavated area has been backfilled with clean soil, graded, and seeded with NMSLO approved seed mixture. Therefore, Site remediation and reclamation is complete. A Revegetation Report for the Site will be submitted to the NMOCD under separate cover containing the NMOCD required information upon completion of revegetation. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at [Chuck.Terhune@tetrattech.com](mailto:Chuck.Terhune@tetrattech.com) or by phone at (832) 252-2093.

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 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Site Assessment Locations
- Figure 5 – Remediation Extents and Confirmation Sample Locations

### Tables

- Table 1 – Soil Assessment Locations
- Table 2 – Summary of Analytical Results – Soil Assessment Sampling
- Table 3 – Summary of Analytical Results – Remediation Confirmation Sampling

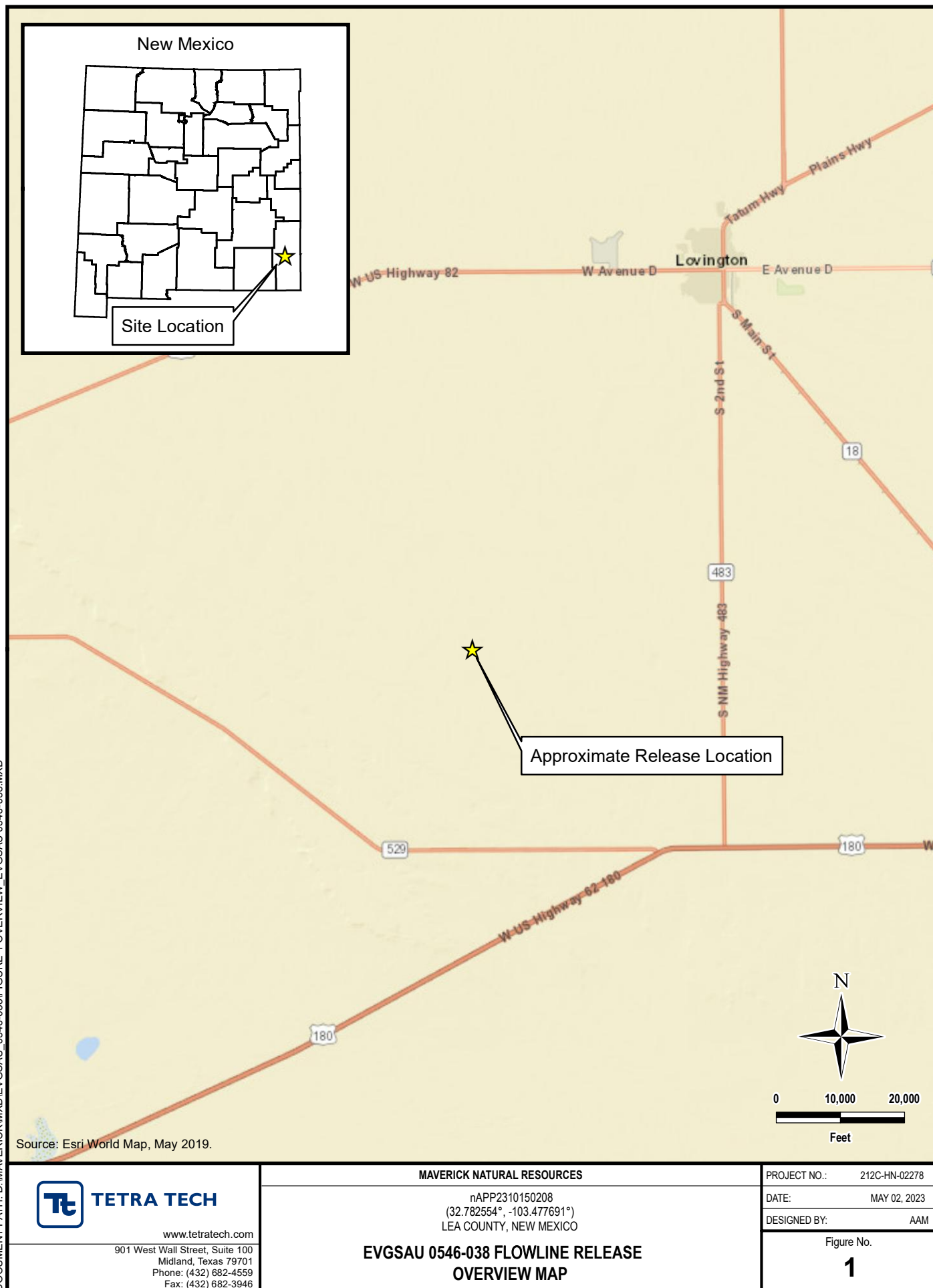
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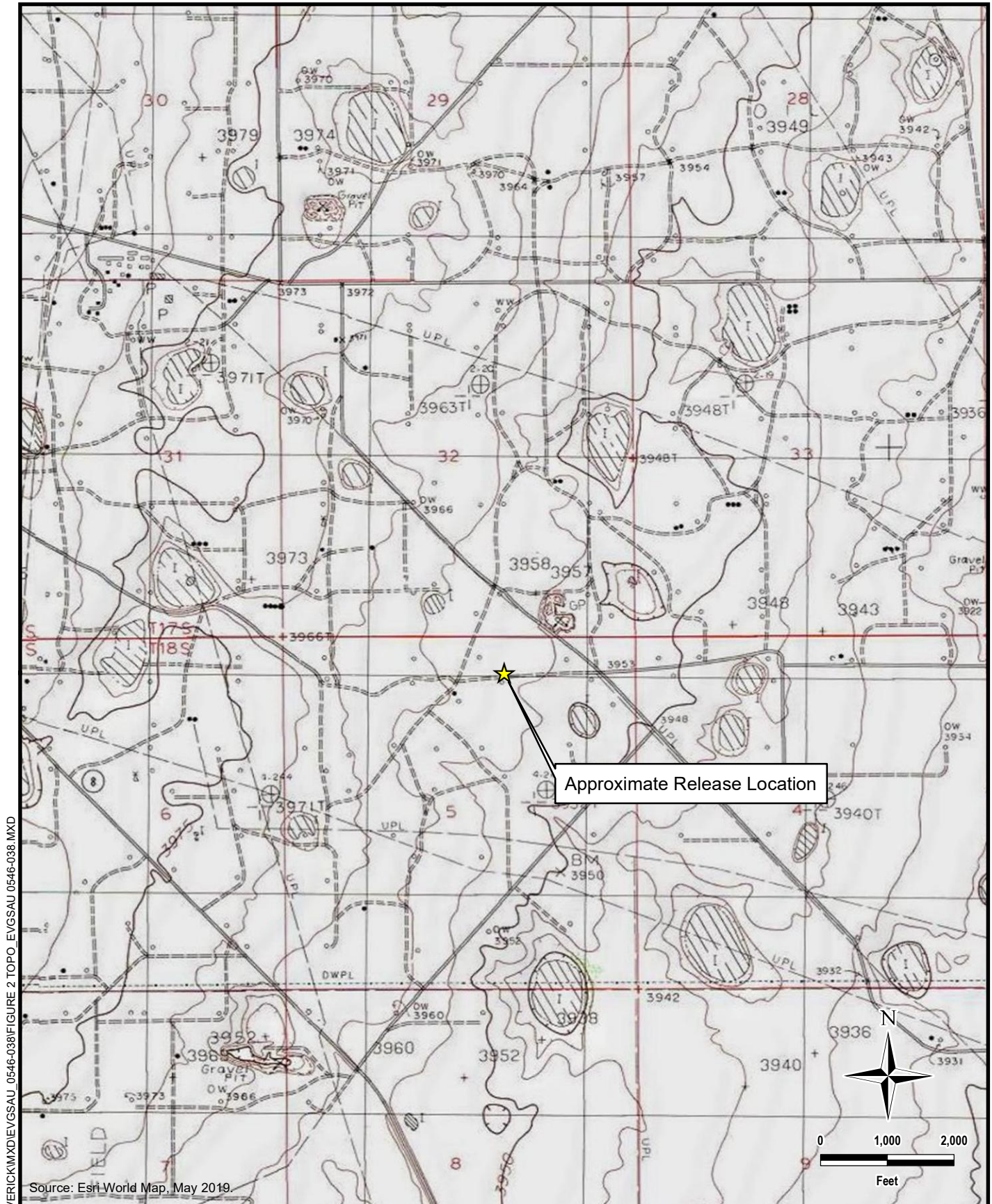
- Attachment 1 – Site Characterization Data
- Attachment 2 – Cultural Resources
- Attachment 3 – Photographic Documentation
- Attachment 4 – Laboratory Analytical Reports
- Attachment 5 – NMSLO Seed Mixture Details

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## FIGURES





DOCUMENT PATH: D:\MAVERICK\MD\EVGSAU\_0546-038\FIGURE 2 TOPO EVGSAU 0546-038.MXD


**TETRA TECH**
[www.tetrattech.com](http://www.tetrattech.com)

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

**MAVERICK NATURAL RESOURCES**

 nAPP2310150208  
 (32.782554°, -103.477691°)  
 LEA COUNTY, NEW MEXICO

**EVGSAU 0546-038 FLOWLINE RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-HN-02278

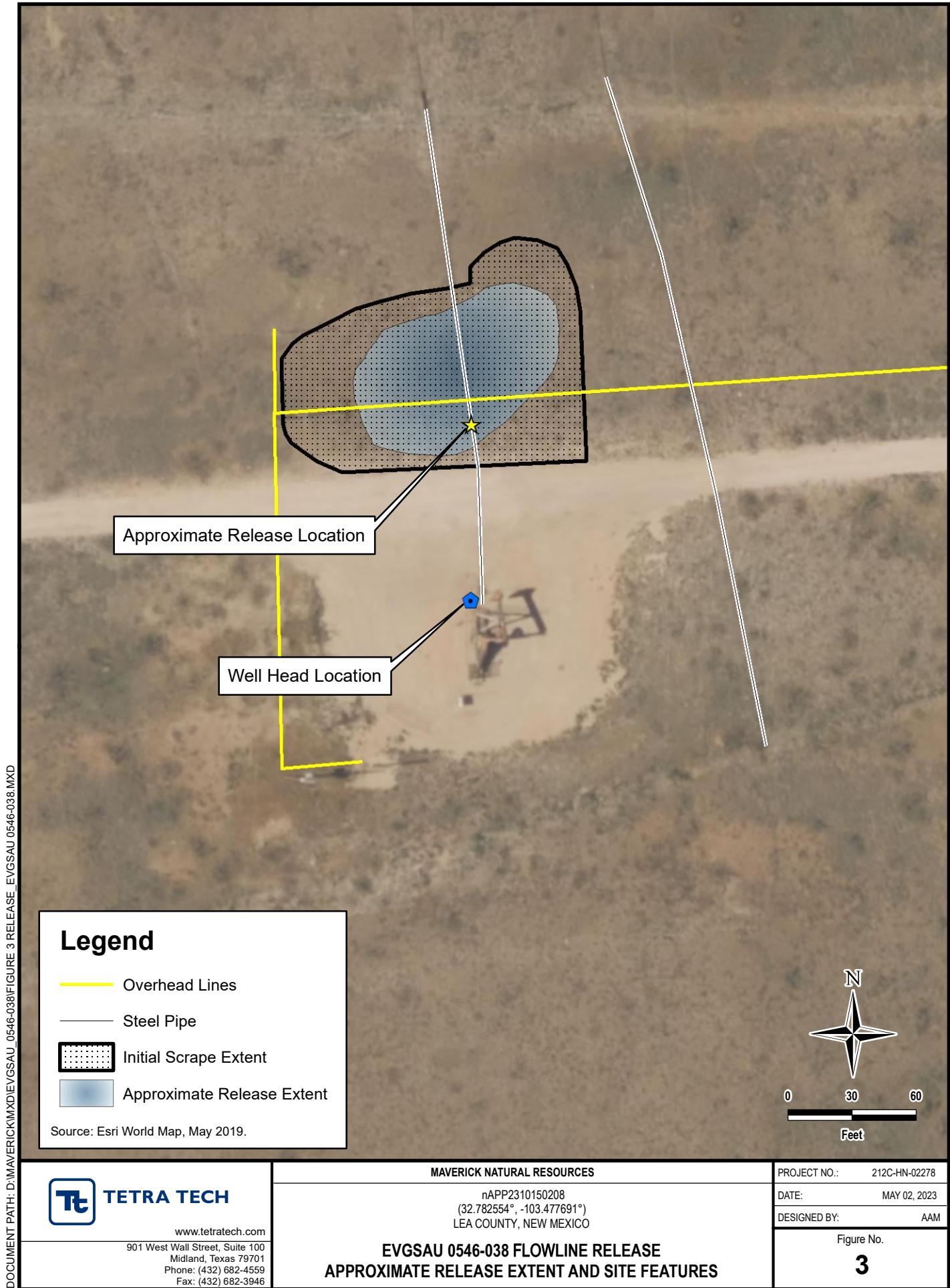
DATE: MAY 02, 2023

DESIGNED BY: AAM

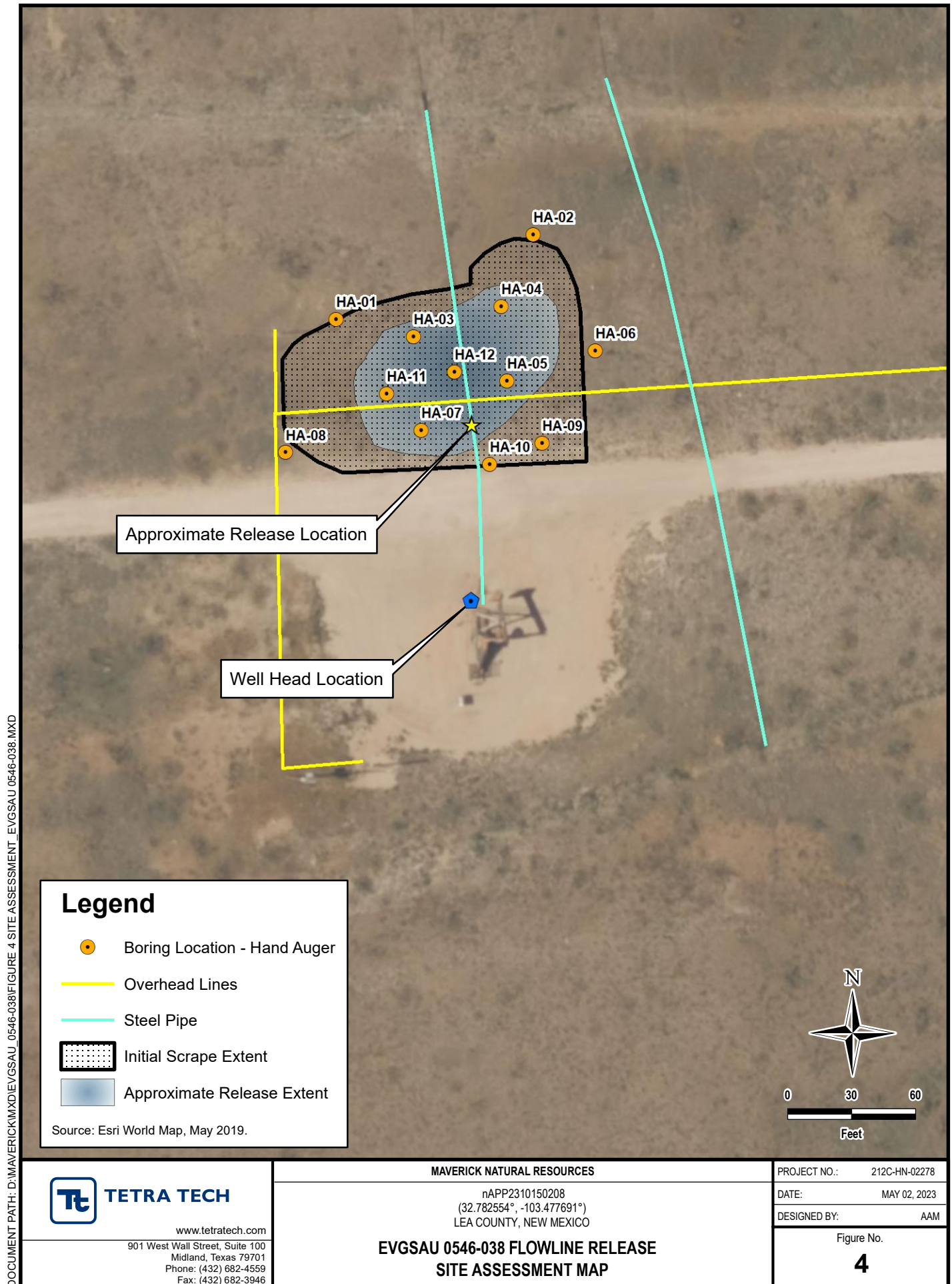
Figure No.

**2**

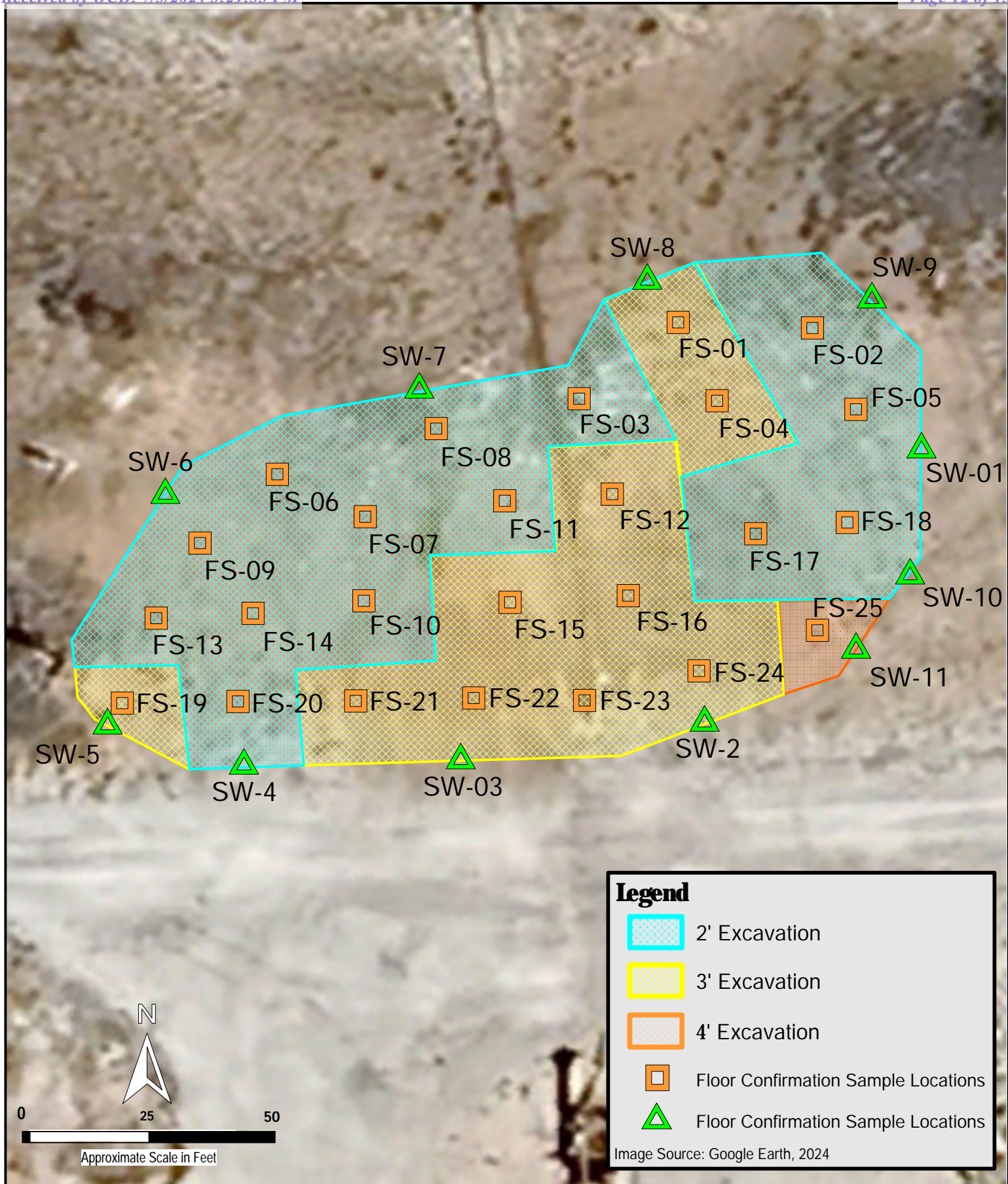












**TETRA TECH**

1500 CityWest Boulevard  
Suite 1000  
Houston, Texas 77042

**MAVERICK PERMIAN, LLC**  
nAPP2310150208  
32.782555°, -103.477691°  
Lea County, New Mexico

**EVGSAU 0546-038 FLOWLINE RELEASES  
EXCAVATION AND CONFIRMATION SAMPLING**

PROJECT NO: 212C-HN-02278  
DATE: June 28, 2024  
DESIGNED BY: CHT

**Figure  
5**

Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
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TABLES

**TETRA TECH**

**TABLE 1**  
**SOIL ASSESSMENT LOCATIONS**  
**INCIDENT ID NAPP2310150208**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 0546-038 FLOWLINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

Boring ID	Date	Latitude	Longitude
HA-01	4/7/2023	32.782692	-103.477897
HA-02	4/7/2023	32.782798	-103.477594
HA-03	4/7/2023	32.782668	-103.477779
HA-04	4/7/2023	32.782706	-103.477645
HA-05	4/7/2023	32.782610	-103.477636
HA-06	4/7/2023	32.782648	-103.477502
HA-07	4/7/2023	32.782548	-103.477768
HA-08	4/7/2023	32.782521	-103.477975
HA-09	4/7/2023	32.782530	-103.477584
HA-10	4/7/2023	32.782503	-103.477664
HA-11	4/7/2023	32.782596	-103.477820
HA-12	4/7/2023	32.782623	-103.477716



TABLE 2  
SOIL ASSESSMENTS SAMPLING ANALYTICAL RESULTS  
INCIDENT NAPP2310150208  
MAVERICK PERMIAN, LLC  
EVGSAU 0546-038 FLOWLINE 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		Total TPH	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	(GRO+DRO+ORO)	
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
AH - 1 (0-1')	10/13/2020	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150				<10.0		<10.0		<10.0			
AH - 2 (0-1')	10/13/2020	0.0 - 1.0	80		<0.050		<0.050		<0.050		<0.150		-		<10.0		<10.0		<10.0			
AH - 3 (0-1')	10/13/2020	0.0 - 1.0	480		<0.050		<0.050		<0.050		<0.150		-		<10.0		855		207		1062	
AH - 4 (0-1')	10/13/2020	0.0 - 1.0	5,920		<0.050		<0.050		<0.050		<0.150		-		<10.0		218		55		273	
AH - 5 (0-1')	10/13/2020	0.0 - 1.0	12,800		<0.050		<0.050		<0.050		<0.150		-		<10.0		246		60.5		306.5	
AH - 6 (0-1')	10/13/2020	0.0 - 1.0	96		<0.050		<0.050		<0.050		<0.150		-		<10.0		<10.0		<10.0			
AH - 7 (0-1')	10/13/2020	0.0 - 1.0	6,800		<0.050		0.121		0.747		2.33		3.198		24.8		1030		201		1255.8	
AH - 8 (0-1')	10/13/2020	0.0 - 1.0	848		<0.050		<0.050		<0.050		<0.150		-		<10.0		30.6		17.1		47.7	
AH - 9 (0-1')	10/13/2020	0.0 - 1.0	96		<0.050		<0.050		<0.050		<0.150				<10.0		<10.0		<10.0			
AH - 10 (0-1')	10/13/2020	0.0 - 1.0	160		<0.050		<0.050		<0.050		<0.150		-		<10.0		<10.0		<10.0			
AH - 11 (0-1')	10/13/2020	0.0 - 1.0	8,260		<0.050		<0.050		<0.050		<0.150		-		<10.0		736		165		901	
AH - 12 (0-1')	10/13/2020	0.0 - 1.0	4,240		<0.050		0.082		0.362		1.86		2.304		126		5,020		998		6,144	

## NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

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

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8260B

TPH: Total Petroleum Hydrocarbons

EXT DRO: Oil Range Organics

3: Method 8015M



**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL CONFIRMATION SAMPLING - INCIDENTS NAPP2310150208**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 0546-038 FLOWLINE 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		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q		mg/kg
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
FS - 1 ( 3' )	4/2/2024	3.0 - 3.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 2 ( 2.0' )	3/22/2024	2.0 - 2.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 3 ( 2.0' )	3/25/2024	2.0 - 2.5	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 4 ( 3' )	4/2/2024	3.0 - 3.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 5 ( 2.0' )	3/22/2024	2.0 - 2.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 6 ( 2.0' )	3/25/2024	2.0 - 2.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 7 ( 2' )	3/27/2024	2.0 - 2.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 8 ( 2' )	3/27/2024	2.0 - 2.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 9 ( 2.0' )	3/25/2024	2.0 - 2.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 10 ( 2' )	3/27/2024	2.0 - 2.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 11 ( 2' )	3/27/2024	2.0 - 2.5	330		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 12 ( 2.0' )	3/25/2024	2.0 - 2.5	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 12 ( 3' )	4/2/2024	3.0 - 3.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 13 ( 2.0' )	3/25/2024	2.0 - 2.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 14 ( 2' )	3/27/2024	2.0 - 2.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 15 ( 3.0' )	4/4/2024	3.0 - 3.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 15 ( 3' )	4/2/2024	3.0 - 3.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 16 ( 2.0' )	3/25/2024	2.0 - 2.5	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 16 ( 3' )	4/2/2024	3.0 - 3.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 17 ( 2.0' )	3/25/2024	2.0 - 2.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 18 ( 2.0' )	3/22/2024	2.0 - 2.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 19 ( 3' )	4/2/2024	3.0 - 3.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 20 ( 2' )	3/27/2024	2.0 - 2.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 21 ( 2' )	3/27/2024	2.0 - 2.5	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 21 ( 3' )	4/2/2024	3.0 - 3.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 22 ( 2' )	3/27/2024	2.0 - 2.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 22 ( 3' )	4/2/2024	3.0 - 3.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 23 ( 2' )	3/27/2024	2.0 - 2.5	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 23 ( 3' )	4/2/2024	3.0 - 3.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 24 ( 3' )	4/2/2024	3.0 - 3.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 25 ( 2.0' )	3/22/2024	2.0 - 2.5	784		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 25 ( 3' )	4/2/2024	3.0 - 3.5	2,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS - 25 ( 4.0' )	4/4/2024	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	3/22/2024	0.0 - 2.0	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	4/2/2024	0.0 - 2.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	3/22/2024	0.0 - 3.0	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	3/27/2024	0.0 - 3.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	





**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL CONFIRMATION SAMPLING - INCIDENTS NAPP2310150208**  
**MAVERICK PERMIAN, LLC**  
**EVGSAU 0546-038 FLOWLINE 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		Total TPH (GRO+DRO+EXT DRO)	
		C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
Reclamation Requirements (19.15.29 NMAC)			600	Q	10	Q		Q		Q		Q	50	Q		Q		Q		Q	100	
SW - 4	3/25/2024	0.0 - 2.0	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		98		216	
WS - 4	4/3/2024	0.0 - 2.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	3/25/2024	0.0 - 3.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	3/27/2024	0.0 - 2.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	3/25/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	3/22/2024	0.0 - 3.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	3/27/2024	0.0 - 2.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		87		64		152	
WS - 9	4/3/2024	0.0 - 2.0	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10	4/4/2024	0.0 - 2.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 11	4/4/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

**NOTES:**

bgs: Below ground surface  
mg/kg: Milligrams per kilogram  
TPH: Total Petroleum Hydrocarbons

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

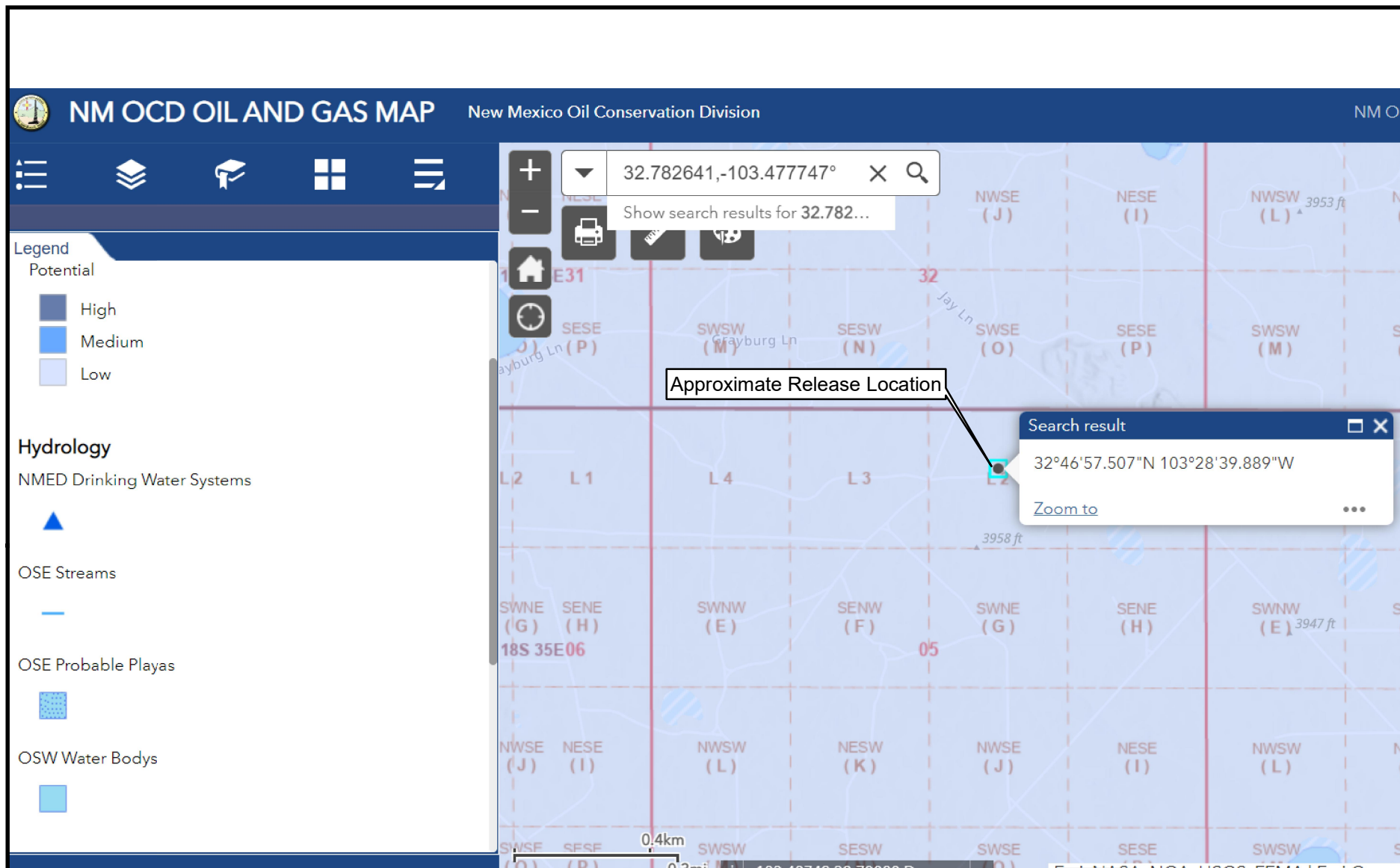
1: Method SM4500Cl-B  
2: Method 8021B  
3: Method 8015M

**Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).**  
**Laterally or vertically over excavated and resampled**


Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
Incident ID: nAPP2310150208

July 1, 2024

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



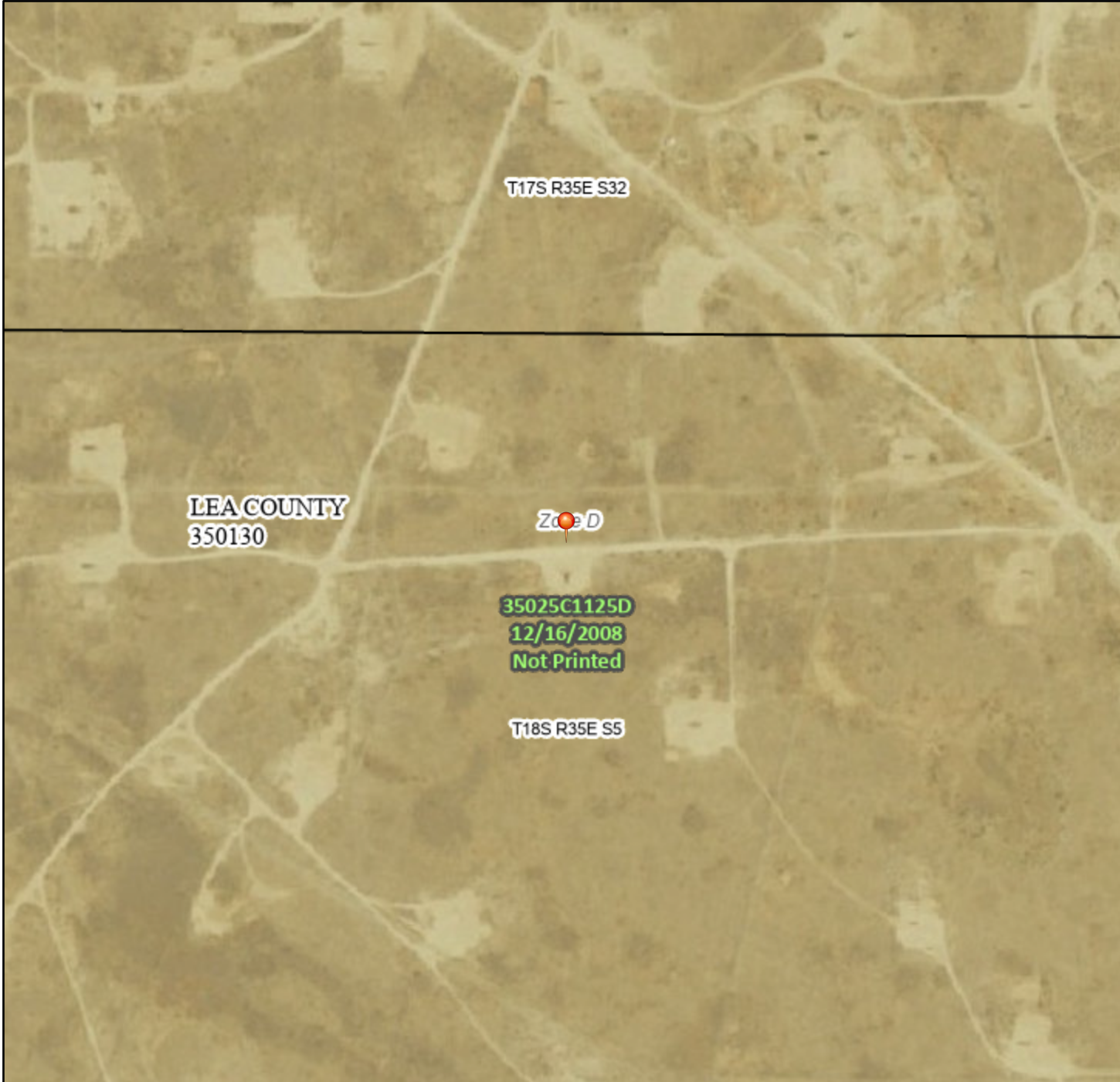
DOCUMENT PATH: D:\MAVERICK\MXDA\APPENDIX\_EYVSAU 0546-038.MXD

 <b>TETRA TECH</b>  www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	<b>MAVERICK NATURAL RESOURCES</b>		PROJECT NO.: 212C-HN-02278
	(32.782641°, -103.477747°) LEA COUNTY, NEW MEXICO		DATE: APRIL 27, 2023
	<b>EVGSAU 0546-038 FLOW LINE RELEASE KARST POTENTIAL, PROBABLE PLAYS, AND WATER BODIES</b>		DESIGNED BY: AAM
			Appendix <b>B</b>

# National Flood Hazard Layer FIRMette



103°28'58"W 32°47'12"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°28'21"W 32°46'42"N

Released to Imaging: 7/25/2024 9:49:40 AM

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/28/2024 at 10:44 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



# 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 04931</a>	L	LE		1	2	05	18S	35E		642561	3628183*	30	237	70	167
<a href="#">L 04829 S</a>	L	LE		3	4	32	17S	35E		642554	3628586*	372	198	85	113
<a href="#">L 04591</a>	L	LE		4	2	05	18S	35E		642970	3627785*	591	130	75	55
<a href="#">L 04250</a>	L	LE				05	18S	35E		642378	3627565*	673	112	60	52

Average Depth to Water: **72 feet**

Minimum Depth: **60 feet**

Maximum Depth: **85 feet**

Record Count: 4

UTM NAD83 Radius Search (in meters):

**Easting (X):** 642561.49

**Northing (Y):** 3628213.3

**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.

4/27/23 2:27 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

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

---

## Lea County, New Mexico

### KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tw46

*Elevation:* 2,500 to 4,800 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 180 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 45 percent

*Lea and similar soils:* 25 percent

*Minor components:* 30 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough

##### Setting

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Concave, linear

*Parent material:* Loamy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 3 inches:* gravelly loam

*Bw - 3 to 10 inches:* loam

*Bkkm1 - 10 to 16 inches:* cemented material

*Bkkm2 - 16 to 80 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 4 to 18 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* 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



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

---

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R077DY049TX - Very Shallow 12-17" PZ*  
*Hydric soil rating: No*

## Description of Lea

### Setting

*Landform: Plains*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age*

### Typical profile

*A - 0 to 10 inches: loam*  
*Bk - 10 to 18 inches: loam*  
*Bkk - 18 to 26 inches: gravelly fine sandy loam*  
*Bkkm - 26 to 80 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 22 to 30 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: High*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 90 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 3.0*  
*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*

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

---

**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

*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

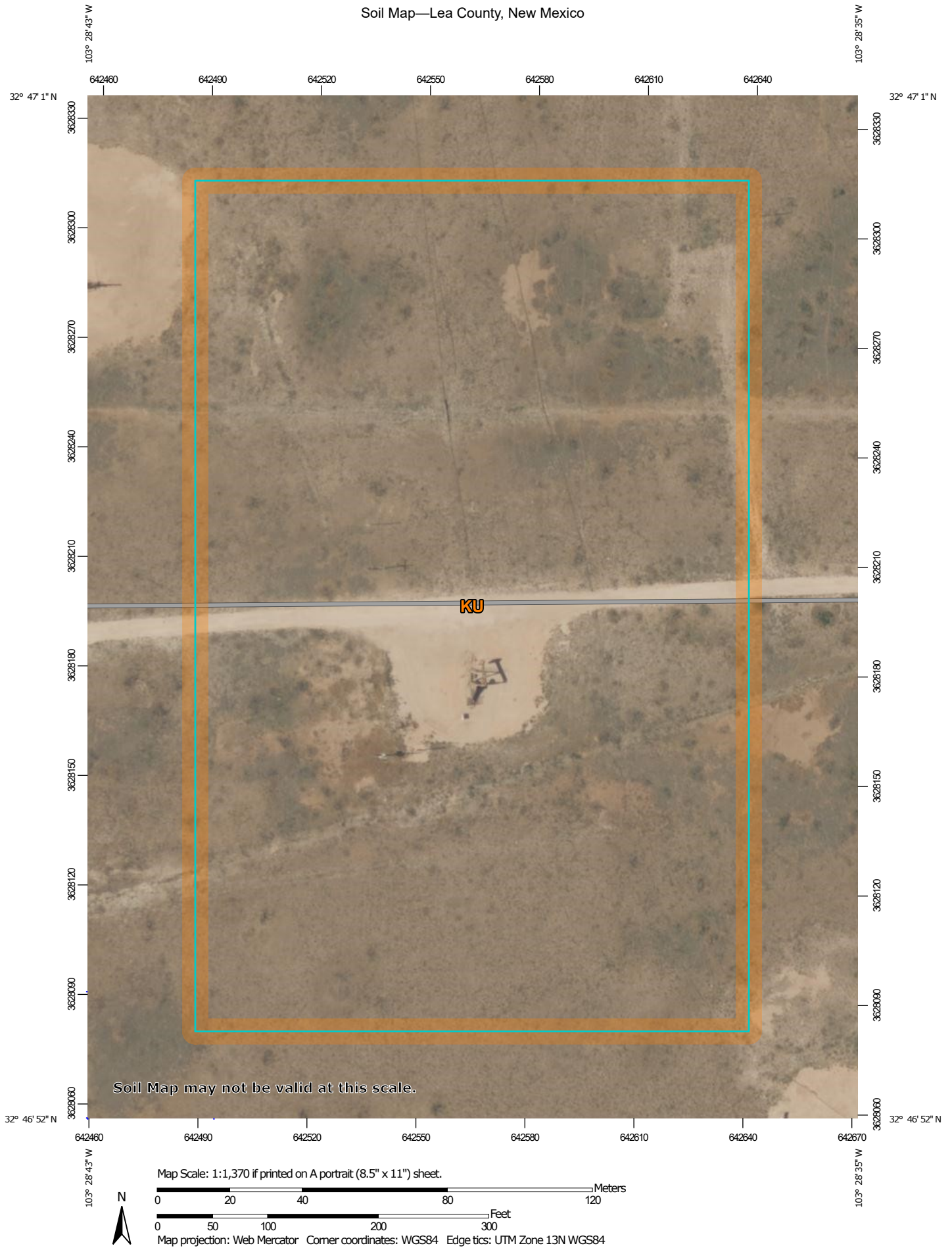
## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023



Soil Map—Lea County, New Mexico



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

6/28/2024  
Page 1 of 3

## Soil Map—Lea County, New Mexico

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

## Water Features



Streams and Canals

## Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 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.

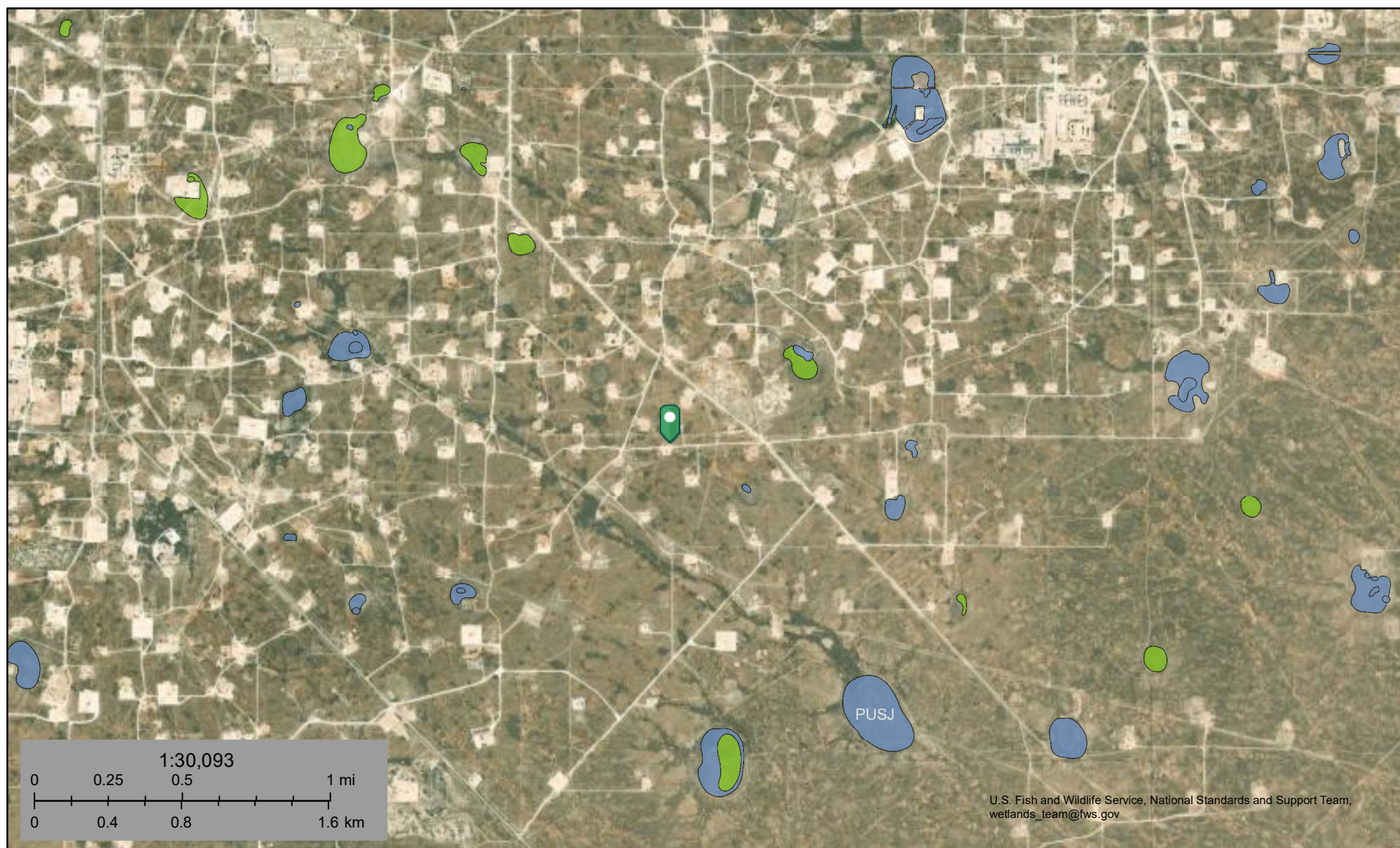
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	8.8	100.0%
Totals for Area of Interest		8.8	100.0%





## EVGSAU 0546-038 Wetlands



July 3, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
Incident ID: nAPP2310150208

July 1, 2024

## **ATTACHMENT 2 – CULTURAL RESOURCE SURVEY**

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 2 9 4 1

Registration

Lead Agency: New Mexico State Land Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 81404

Performing Agency Report No: 23-312

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: 2.49

Total Tribal Acreage: 0.00

Total Resources Visited: 0

Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
Incident ID: nAPP2310150208

July 1, 2024

## **ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION**





☀ 69°E (T) LAT: 32.782528 LON: -103.477846 ±4m ▲ 1210m



Site Assessment  
Tetra Tech

Maverick - EVGSAU 0546-038  
Apr 07 2023, 10:04:58 MDT





☀ 354°N (T) LAT: 32.782501 LON: -103.477686 ±4m ▲ 1210m



Site Assessment  
Tetra Tech

Maverick - EVGSAU 0546-038  
Apr 07 2023, 10:05:10 MDT





☉ 322°NW (T) LAT: 32.782646 LON: -103.477961 ±4m ▲ 1206m

Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Mar 26 2024, 15:14:01 MDT





☉ 354°N (T) **LAT:** 32.782725 **LON:** -103.477966 ±4m ▲ 1207m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Mar 26 2024, 15:14:11 MDT





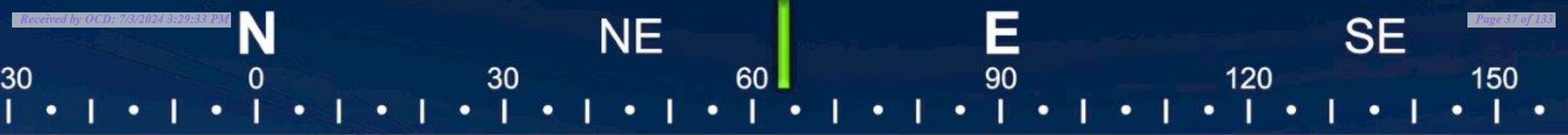
☉ 333°NW (T) **LAT:** 32.782738 **LON:** -103.477949 ±4m ▲ 1206m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Mar 26 2024, 15:14:15 MDT





☉ 64°NE (T) LAT: 32.782555 LON: -103.477810 ±3m ▲ 1206m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Apr 03 2024, 14:50:16 MDT





☀ 86°E (T) LAT: 32.782556 LON: -103.477663 ±4m ▲ 1208m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Apr 04 2024, 11:23:05 MDT





☀ 354°N (T) LAT: 32.782560 LON: -103.477626 ±4m ▲ 1208m



Site Remediation  
Tetra Tech

Maverick - EVGSAU 0546-038  
Apr 04 2024, 11:23:12 MDT





SW

W

NW

N

210

240

270

300

330

0

30

☉ 297°NW (T) LAT: 32.782560 LON: -103.477631 ±4m ▲ 1207m

Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Apr 04 2024, 11:23:19 MDT



N

NE

E

SE

330

0

30

60

90

120

150

☀ 57°NE (T) LAT: 32.782605 LON: -103.477732 ±4m ▲ 1211m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:16:46 MDT



N

NE

E

SE

330

0

30

60

90

120

150

☀ 57°NE (T) LAT: 32.782603 LON: -103.477734 ±4m ▲ 1210m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:16:51 MDT





☉ 19°N (T) LAT: 32.782613 LON: -103.477729 ±4m ▲ 1209m

Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:16:55 MDT



N

NE

E

SE

0

30

60

90

120

150

☀ 77°E (T) LAT: 32.782582 LON: -103.477878 ±4m ▲ 1210m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:17:13 MDT





N

NE

E

SE

S

0

30

60

90

120

150

180

☉ 88°E (T) LAT: 32.782650 LON: -103.477933 ±4m ▲ 1210m

Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:17:33 MDT



NW

N

NE

E

300

330

0

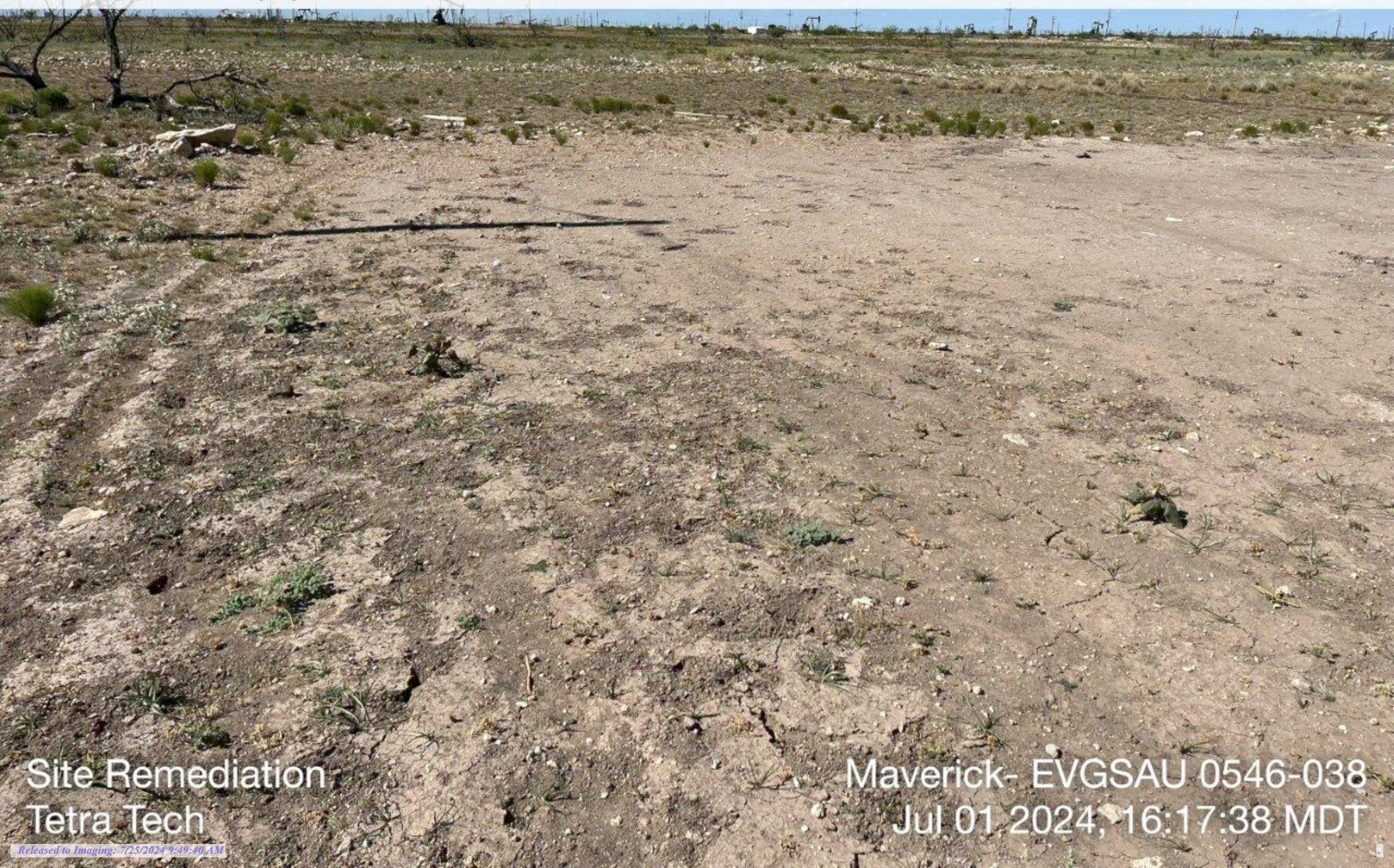
30

60

90

120

☀ 26°NE (T) LAT: 32.782646 LON: -103.477938 ±4m ▲ 1209m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:17:38 MDT





NE

E

SE

S

30

60

90

120

150

180

210

☀ 117°SE (T) LAT: 32.782732 LON: -103.477888 ±4m ▲ 1209m

Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:17:53 MDT



SE

S

SW

W

120

150

180

210

240

270

☀ 190°S (T) LAT: 32.782856 LON: -103.477637 ±4m ▲ 1210m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:18:26 MDT



SE

S

SW

W

120

150

180

210

240

270

☉ 193°S (T) LAT: 32.782850 LON: -103.477600 ±4m ▲ 1209m



Site Remediation  
Tetra Tech

Maverick- EVGSAU 0546-038  
Jul 01 2024, 16:18:45 MDT



Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
Incident ID: nAPP2310150208

July 1, 2024

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





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

March 28, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 13:14.

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:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 1 (H241512-01)**

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	03/26/2024	ND	2.23	112	2.00	2.02		
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	848	16.0	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 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:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 2 (H241512-02)**

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	03/26/2024	ND	2.23	112	2.00	2.02		
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	192	16.0	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 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: 03/22/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 (H241512-03)**

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	03/26/2024	ND	2.23	112	2.00	2.02	
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	160	16.0	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 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: 03/22/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 2 ( 2.0' ) (H241512-04)**

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	03/26/2024	ND	2.23	112	2.00	2.02		
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 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: 03/22/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 5 ( 2.0' ) (H241512-05)**

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	03/26/2024	ND	2.23	112	2.00	2.02		
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	272	16.0	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 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:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS - 18 ( 2.0' ) (H241512-06)**

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	03/26/2024	ND	2.23	112	2.00	2.02		
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 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:	03/22/2024	Sampling Date:	03/22/2024
Reported:	03/28/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS - 25 ( 2.0' ) (H241512-07)**

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	03/26/2024	ND	2.23	112	2.00	2.02	
Toluene*	<0.050	0.050	03/26/2024	ND	2.18	109	2.00	1.89	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.12	106	2.00	2.10	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.16	103	6.00	2.07	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	784	16.0	03/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	202	101	200	2.65	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	194	96.9	200	0.0155	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



## Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name: Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

EVGSAU 0546-038

281-755-8965

Project Location:

(county, state) Lea County, NM

Project #:

chuck.terhune@tetratech.com

Invoice to:

212C-HN-02278

Receiving Laboratory:

Attn: Chuck Terhune

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com

## SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

4241512

SAMPLING

YEAR: 2023

DATE

TIME

MATRIX

PRESERVATIVE METHOD

WATER  
SOIL  
HCL  
HNO<sub>3</sub>  
ICE

# CONTAINERS

FILTERED (Y/N)

BTX 8021B BTX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by: Date: 3-22-24

Relinquished by: Date: 1313

Relinquished by: Date: Time:

Received by: Date: 3-22-24

Received by: Date: 1314

Received by: Date: Time:

LAB USE ONLY

REMARKS:

Standard TAT

Sample Temperature

5.1c

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY





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---

March 28, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 03/25/24 14:18.

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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW -4 (H241545-01)**

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	03/26/2024	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	352	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	206	103	200	0.789	
DRO >C10-C28*	118	10.0	03/26/2024	ND	202	101	200	1.09	
EXT DRO >C28-C36	98.1	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW -5 (H241545-02)**

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	03/26/2024	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38	
Total BTEx	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	206	103	200	0.789	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	202	101	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW -7 (H241545-03)**

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	03/26/2024	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	206	103	200	0.789	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	202	101	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 3 ( 2.0' ) (H241545-04)**

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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	304	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 6 ( 2.0' ) (H241545-05)**

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	03/26/2024	ND	2.10	105	2.00	3.69	
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 9 ( 2.0' ) (H241545-06)**

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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	208	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 12 ( 2.0' ) (H241545-07)**

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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTEX	<0.300	0.300	03/26/2024	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	2000	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 13 ( 2.0' ) (H241545-08)**

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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	544	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 16 ( 2.0' ) (H241545-09)**

BTX 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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1040	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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: 03/25/2024  
 Reported: 03/28/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: LEA COUNTY, NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 17 ( 2.0' ) (H241545-10)**

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	03/26/2024	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	03/26/2024	ND	2.34	117	2.00	8.39		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.48	124	2.00	9.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	7.58	126	6.00	9.38		
Total BTEx	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	384	16.0	03/27/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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.
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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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

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

Project Name: **EVGSAU 0546-038** 281-755-8965

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

Invoice to: **212C-HN-02278**

Receiving Laboratory: **Cardinal Labs** Attn: **Chuck Terhune** Sampler Signature: **Jorge Fernandez**

Comments: **Include : Chris Straub Chris.Straub@tetratech.com**

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

1		SW-4	3/25/2024		X			X		
2		SW-5	3/25/2024		X			X		
3		SW-7	3/25/2024		X			X		
4		FS-3 (2.0')	3/25/2024		X			X		
5		FS-6 (2.0')	3/25/2024		X			X		
6		FS-9 (2.0')	3/25/2024		X			X		
7		FS-12 (2.0')	3/25/2024		X			X		
8		FS-13 (2.0')	3/25/2024		X			X		
9		FS-16 (2.0')	3/25/2024		X			X		
10		FS-17 (2.0')	3/25/2024		X			X		

Inquired by: **Chris Straub** Date: **3-25-24** Time: **1417**  
Received by: **Chuck Terhune** Date: **3-25-24** Time: **1418**  
Inquired by: **Chris Straub** Date: **3-25-24** Time: **1417**  
Received by: **Chuck Terhune** Date: **3-25-24** Time: **1418**

ANALYSIS REQUEST  
(Circle or Specify Method No.)

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

LAB USE ONLY  
REMARKS: Standard TAT  
☒ RUSH: Same Day 24 hr 48 hr 72 hr  
☐ Rush Charges Authorized  
☐ Special Report Limits or TRRP Report

ORIGINAL COPY





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---

April 01, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 03/27/24 15:46.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 3 (H241612-01)**

BTX 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	03/28/2024	ND	2.09	105	2.00	6.09	
Toluene*	<0.050	0.050	03/28/2024	ND	2.09	104	2.00	6.39	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.03	102	2.00	6.66	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.17	103	6.00	6.17	
Total BTX	<0.300	0.300	03/28/2024	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	80.0	16.0	03/28/2024	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	03/28/2024	ND	201	101	200	1.56	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	173	86.7	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 6 (H241612-02)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTX	<0.300	0.300	03/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 9 (H241612-03)**

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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTEX	<0.300	0.300	03/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	96.0	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	87.4	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	64.4	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS 7 (2') (H241612-04)**

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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTEX	<0.300	0.300	03/28/2024	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	80.0	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 03/27/2024  
 Reported: 04/01/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 8 (2') (H241612-05)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTX	<0.300	0.300	03/28/2024	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	192	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 03/27/2024  
 Reported: 04/01/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 10 (2') (H241612-06)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99	
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164	
Total BTX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 03/27/2024  
 Reported: 04/01/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 11 (2') (H241612-07)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTX	<0.300	0.300	03/28/2024	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	330	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 03/27/2024  
 Reported: 04/01/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 14 (2') (H241612-08)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTX	<0.300	0.300	03/28/2024	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	96.0	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 04/01/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 03/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 20 (2') (H241612-09)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99	
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164	
Total BTX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	272	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS 21 (2') (H241612-10)**

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	03/28/2024	ND	2.07	104	2.00	1.99		
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630		
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556		
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164		
Total BTEX	<0.300	0.300	03/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1040	16.0	03/28/2024	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	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS 22 (2') (H241612-11)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99	
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164	
Total BTX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2840	16.0	03/28/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	03/27/2024	Sampling Date:	03/27/2024
Reported:	04/01/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS 23 (2') (H241612-12)**

BTX 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	03/28/2024	ND	2.07	104	2.00	1.99	
Toluene*	<0.050	0.050	03/28/2024	ND	2.14	107	2.00	0.630	
Ethylbenzene*	<0.050	0.050	03/28/2024	ND	2.21	110	2.00	0.556	
Total Xylenes*	<0.150	0.150	03/28/2024	ND	6.55	109	6.00	0.164	
Total BTX	<0.300	0.300	03/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1880	16.0	03/28/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2024	ND	196	98.0	200	1.31	
DRO >C10-C28*	<10.0	10.0	03/28/2024	ND	201	101	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	03/28/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Tetra Tech</b>		P.O. #:		BILL TO				ANALYSIS REQUEST																													
Project Manager: <b>Chloe Terhune</b>																																					
Address:		Company: <b>Maverick</b>																																			
City:		Attn:																																			
State:		Address:																																			
Zip:		City:																																			
Phone #:		State:																																			
Fax #:		Zip:																																			
Project #: <b>212C HN-D278</b>		Project Owner:																																			
Project Name: <b>EVASAU 0546-038</b>		Phone #:																																			
Project Location: <b>Lee Co. NM</b>		Fax #:																																			
Sampler Name: <b>AC</b>																																					
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		8015M		Chloride	
H241612		SW 3				1						X																									
2 SW 6						1						X																									
3 SW 9						1						X																									
4 FS 7 (2.2)						1						X																									
5 FS 8 (2.2)						1						X																									
6 FS 10 (2.2)						1						X																									
7 FS 11 (2.2)						1						X																									
8 FS 14 (2.2)						1						X																									
9 FS 20 (2.2)						1						X																									
10 FS 21 (2.2)						1						X																									

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Relinquished By: <b>Chloe Terhune</b>	Date: <b>3/27/24</b>	Received By: <b>James Keene</b>	Date: <b>3/27/24</b>
Relinquished By:	Date:	Received By:	Date:

Delivered By: (Circle One) **UPS** Observed Temp. °C **1.2** Sample Condition **Cool Intact** CHECKED BY: **(Initials)** **JK**

Sampler - UPS - Bus - Other: Corrected Temp. °C **1.2** ☒ Yes ☐ No ☐ Yes ☐ No

Turnaround Time: **Standard** ☐ **Rush** ☒ **48 hr** Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C

Thermometer ID #140 Correction Factor 0°C

REMARKS:

Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:

† Cardinal cannot accept verbal changes. Changes to caley.keene@cardinallabsnm.com





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**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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---

April 03, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 04/02/24 15:00.

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:	04/02/2024	Sampling Date:	04/02/2024
Reported:	04/03/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: FS - 1 ( 3' ) (H241703-01)**

BTX 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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	96.0	16.0	04/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 4 ( 3' ) (H241703-02)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	96.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 12 ( 3' ) (H241703-03)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 15 ( 3' ) (H241703-04)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	48.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 19 ( 3' ) (H241703-05)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	96.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 21 ( 3' ) (H241703-06)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	48.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 22 ( 3' ) (H241703-07)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	48.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/03/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/03/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 23 ( 3' ) (H241703-08)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	80.0	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2024	ND	224	112	200	6.31	
DRO >C10-C28*	<10.0	10.0	04/03/2024	ND	195	97.4	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	04/03/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 24 ( 3' ) (H241703-09)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	160	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	186	92.9	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	183	91.7	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 25 ( 3' ) (H241703-10)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	2200	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	186	92.9	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	183	91.7	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FS - 16 ( 3' ) (H241703-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	352	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	186	92.9	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	183	91.7	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 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: 04/02/2024  
 Reported: 04/03/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/02/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 1 (H241703-12)**

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	04/02/2024	ND	2.22	111	2.00	3.43		
Toluene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	3.05		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.10	105	2.00	3.36		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.11	102	6.00	3.48		
Total BTEX	<0.300	0.300	04/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	240	16.0	04/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	186	92.9	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	183	91.7	200	0.462	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





## ANALYSIS REQUIRED

Company Name: Tchrat Tech						
Project Manager: Chuck Terhue						
Address:						
City:						
State:						
Zip:						
Phone #:						
Fax #:						
Project #: 212C-HV-62278						
Project Owner:						
Project Name: EVG SAN 054L-038						
Project Location: Lea Co. NM						
Sampler Name: AS						
FOR LAB USE ONLY						
Lab I.D. H041703						
Sample I.D.						
(G)RAB OR (C)OMP.						
# CONTAINERS						
GROUNDWATER						
WASTEWATER						
SOIL						
OIL						
SLUDGE						
OTHER :						
ACID/BASE:						
(CE) COOL						
OTHER :						
DATE						
TIME						
BTEX						
TPH 8015 M						
Chloride						

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Relinquished By: [Signature]

Date: 4/12/24

Time: 1:50

Received By: [Signature]

Date: 4/12/24

Time: 1:50

Delivered By: (Circle One)

Observed Temp. °C 03

Corrected Temp. °C

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Fresh

Bacteria (only) Sample Condition

Cool Intact

Yes Yes

No No

Observed Temp. °C

Corrected Temp. °C

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:





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

---

April 05, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 15:42.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WS-4	H241737-01	Soil	03-Apr-24 00:00	03-Apr-24 15:42
WS-9	H241737-02	Soil	03-Apr-24 00:00	03-Apr-24 15:42

04/05/24 - Client changed project name and number (see COC). This is the revised report and will replace the one sent on 04/04/24.

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A handwritten signature in black ink, appearing to read "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  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

**WS-4**  
**H241737-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4040423	HM	04-Apr-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4040336	JH	04-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.1 %	71.5-134	4040336	JH	04-Apr-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	

Surrogate: 1-Chlorooctane	95.1 %	48.2-134	4040335	MS	04-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane	91.2 %	49.1-148	4040335	MS	04-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

**WS-9****H241737-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4040423	HM	04-Apr-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4040336	JH	04-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4040336	JH	04-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.9 %		71.5-134	4040336	JH	04-Apr-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040335	MS	04-Apr-24	8015B	

Surrogate: 1-Chlorooctane			73.4 %		48.2-134	4040335	MS	04-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			71.8 %		49.1-148	4040335	MS	04-Apr-24	8015B	
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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  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4040423 - 1:4 DI Water</b>									
<b>Blank (4040423-BLK1)</b>					Prepared & Analyzed: 04-Apr-24				
Chloride	ND	16.0	mg/kg						
<b>LCS (4040423-BS1)</b>					Prepared & Analyzed: 04-Apr-24				
Chloride	416	16.0	mg/kg	400		104	80-120		
<b>LCS Dup (4040423-BSD1)</b>					Prepared & Analyzed: 04-Apr-24				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040336 - Volatiles****Blank (4040336-BLK1)**

Prepared: 03-Apr-24 Analyzed: 04-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		91.7	71.5-134			

**LCS (4040336-BS1)**

Prepared: 03-Apr-24 Analyzed: 04-Apr-24

Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.11	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.3	89-129			
o-Xylene	1.97	0.050	mg/kg	2.00		98.3	86.1-125			
Total Xylenes	5.90	0.150	mg/kg	6.00		98.3	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0455		mg/kg	0.0500		91.1	71.5-134			

**LCS Dup (4040336-BSD1)**

Prepared: 03-Apr-24 Analyzed: 04-Apr-24

Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	1.16	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	1.03	15.9	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	85.9-128	1.08	16	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.5	89-129	1.12	16.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.5	86.1-125	1.15	16.7	
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	88.2-128	1.13	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0458		mg/kg	0.0500		91.6	71.5-134			

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU - 0546-038  
Project Number: 212C-MD-02278  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
05-Apr-24 09:21

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4040335 - General Prep - Organics****Blank (4040335-BLK1)**

Prepared &amp; Analyzed: 03-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.7	48.2-134			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0		91.3	49.1-148			

**LCS (4040335-BS1)**

Prepared &amp; Analyzed: 03-Apr-24

GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	214	10.0	mg/kg	200		107	66.5-118			
Total TPH C6-C28	426	10.0	mg/kg	400		106	77.6-123			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.7	48.2-134			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.6	49.1-148			

**LCS Dup (4040335-BS1)**

Prepared &amp; Analyzed: 03-Apr-24

GRO C6-C10	223	10.0	mg/kg	200		112	66.4-123	5.34	17.7	
DRO >C10-C28	220	10.0	mg/kg	200		110	66.5-118	2.82	21	
Total TPH C6-C28	444	10.0	mg/kg	400		111	77.6-123	4.08	18.5	
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.8	49.1-148			

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**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, 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: Through Vacuum ABO Battery #4 EVGSAU 0546-038 281-755-8965

Project Location: Lea County, NM Project #: 3378  
Chuck.Terhune@tetratech.com

Invoice to: Attn: Chuck Terhune 212C-MD-03872

Receiving Laboratory: Cardinal Labs Sampler Signature: Jorge Fernandez

Comments: Include: Chris Straub Chris.Straub@tetratech.com

LAB #  (LAB USE ONLY)	H241737	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)		
			YEAR: 2023	DATE	TIME	WATER	SOIL	HCL				HNO <sub>3</sub>	ICE
# ANALYTES REQUESTED (Circle or Specify Method No.)													
EPA 8210B BTEX													
EPA 8210B TX1005 (Ext to 8210B)													
EPA 8210B GRO - 8210B													
EPA 8270C													
Total Metals Ag As Ba Bi Br Cd Cr Cu Fe Hg Mn Mo Ni Pb Se Sn Ti V Zn													
EPA 8210B CLP Metals Ag As Ba Bi Br Cd Cr Cu Fe Hg Mn Mo Ni Pb Se Sn Ti V Zn													
EPA 8210B CLP Volatiles													
EPA 8210B CLP Semi Volatiles													
EPA 8210B RCRI													
EPA 8210B GC/MS Vol. 8260B / 8260C													
EPA 8210B GC/MS Semi. Vol. 8210B													
EPA 8210B PCB's 8082 / 608													
EPA 8210B NORM													
EPA 8210B PLM (Asbestos)													
EPA 8210B Chloride													
EPA 8210B Chloride Sulfate													
EPA 8210B General Water Chem													
EPA 8210B Anion/Cation Balance													
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1	WS-4		4/3/2024		X			X		X	BTEX 8021B BTEX 8260B
2	WS-9		4/3/2024		X			X		X	TPH TX1005 (Ext to C35)
										X	TPH 8015M ( GRO - DRO - ORO - MRO)
											PAH 8270C
											Total Metals Ag As Ba Cd Cr Pb Se Hg
											TCLP Metals Ag As Ba Cd Cr Pb Se Hg
											TCLP Volatiles
											TCLP Semi Volatiles
											RCI
											GC/MS Vol. 8260B / 624
											GC/MS Semi. Vol. 8270C/625
											PCB's 8082 / 608
											NORM
											PLM (Asbestos)
										X	Chloride
										X	Chloride Sulfate TDS
											General Water Chemistry (see attached list)
											Anion/Cation Balance
											Hold

Relinquished by: [Signature] Date: 4-3-24 Time: 1523

Received by: [Signature] Date: 4-3-24 Time: 1542

LAB USE ONLY  
Sample Temperature: 30°C  
REMARKS: Standard TAT  
\* Customer requested same day. 4/5/24  
[X] RUSH: Same Day 24 hr 48 hr 72 hr  
[ ] Rush Charges Authorized  
[ ] Special Report Limits or TRRP Report

ORIGINAL COPY



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

---

April 05, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 0546-038

Enclosed are the results of analyses for samples received by the laboratory on 04/04/24 13:18.

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:	04/04/2024	Sampling Date:	04/04/2024
Reported:	04/05/2024	Sampling Type:	Soil
Project Name:	EVGSAU - 0546-038	Sampling Condition:	Cool & Intact
Project Number:	212C-HN-02278	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 10 (H241755-01)**

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	04/04/2024	ND	2.16	108	2.00	1.16	
Toluene*	<0.050	0.050	04/04/2024	ND	2.11	106	2.00	1.03	
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.08	
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.90	98.3	6.00	1.13	
Total BTEX	<0.300	0.300	04/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 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	96.0	16.0	04/05/2024	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	04/04/2024	ND	207	103	200	2.72	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	190	94.9	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 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: 04/04/2024  
 Reported: 04/05/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 11 (H241755-02)**

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	04/04/2024	ND	2.16	108	2.00	1.16		
Toluene*	<0.050	0.050	04/04/2024	ND	2.11	106	2.00	1.03		
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.08		
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.90	98.3	6.00	1.13		
Total BTEX	<0.300	0.300	04/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 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	64.0	16.0	04/05/2024	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	04/05/2024	ND	207	103	200	2.72	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	190	94.9	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 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: 04/04/2024  
 Reported: 04/05/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 15 (3.0') (H241755-03)**

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	04/04/2024	ND	2.16	108	2.00	1.16		
Toluene*	<0.050	0.050	04/04/2024	ND	2.11	106	2.00	1.03		
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.08		
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.90	98.3	6.00	1.13		
Total BTEX	<0.300	0.300	04/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 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	192	16.0	04/05/2024	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	04/05/2024	ND	207	103	200	2.72	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	190	94.9	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 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: 04/04/2024  
 Reported: 04/05/2024  
 Project Name: EVGSAU - 0546-038  
 Project Number: 212C-HN-02278  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 04/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 25 (4.0') (H241755-04)**

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	04/04/2024	ND	2.16	108	2.00	1.16		
Toluene*	<0.050	0.050	04/04/2024	ND	2.11	106	2.00	1.03		
Ethylbenzene*	<0.050	0.050	04/04/2024	ND	2.04	102	2.00	1.08		
Total Xylenes*	<0.150	0.150	04/04/2024	ND	5.90	98.3	6.00	1.13		
Total BTEX	<0.300	0.300	04/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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	04/05/2024	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	04/05/2024	ND	207	103	200	2.72	
DRO >C10-C28*	<10.0	10.0	04/05/2024	ND	190	94.9	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	04/05/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

### Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

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

Page 1 of 1

Page 7 of 7

[illegible]



Remediation/Reclamation Report and Closure Request  
Maverick Permian, LLC  
EVGSAU 0546-038 Flowline Release  
Incident ID: nAPP2310150208

July 1, 2024

## **ATTACHMENT 5 – NMSLO SEED MIXTURE**

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

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

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

VNS = Variety Not Stated, PLS = Pure Live Seed

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





# SLO Seed Mix

# SM Series

## 3 REVEGETATION PLANS & SEEDING

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

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

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

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



**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 361087

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 361087
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310150208
Incident Name	NAPP2310150208 EVGSAU 0546-038 @ 0
Incident Type	Other
Incident Status	Reclamation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	EVGSAU 0546-038
Date Release Discovered	02/24/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Other
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: Corrosion   Flow Line - Production   Crude Oil   Released: 4 BBL   Recovered: 1 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 10 BBL   Recovered: 1 BBL   Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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**

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Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

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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 361087

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	361087
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/03/2024
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**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

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811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

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1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

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1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 361087

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	361087
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**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	Estimate or Other
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 1 and 5 (mi.)
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	Yes

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	12800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6144
GRO+DRO	(EPA SW-846 Method 8015M)	5146
BTEX	(EPA SW-846 Method 8021B or 8260B)	3.2
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/19/2024
On what date will (or did) the final sampling or liner inspection occur	04/04/2024
On what date will (or was) the remediation complete(d)	04/04/2024
What is the estimated surface area (in square feet) that will be reclaimed	10600
What is the estimated volume (in cubic yards) that will be reclaimed	1240
What is the estimated surface area (in square feet) that will be remediated	10600
What is the estimated volume (in cubic yards) that will be remediated	1240

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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**1220 S. St Francis Dr.**  
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QUESTIONS, Page 4

Action 361087

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	361087
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS****Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/03/2024
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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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**1220 S. St Francis Dr.**  
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QUESTIONS, Page 5  
  
Action 361087

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	361087
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Deferral Requests Only</b>	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 361087

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	361087
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	330295
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/12/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	400

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10600
What was the total volume (cubic yards) remediated	1240
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10600
What was the total volume (in cubic yards) reclaimed	1240
Summarize any additional remediation activities not included by answers (above)	Remediation details contained within the attached report.

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/03/2024
--	--

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QUESTIONS, Page 7

Action 361087

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	361087
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**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	Yes
What was the total reclamation surface area (in square feet) for this site	10600
What was the total volume of replacement material (in cubic yards) for this site	1070
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	04/05/2024
Summarize any additional reclamation activities not included by answers (above)	Subsequent to backfill with clean soil, the site was broadcast seeded and seed was harrowed into the soil. The Remediation/Reclamation report contains photos showing seeds beginning to sprout on the Site from recent photographs of the Site.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 07/03/2024



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QUESTIONS, Page 8  
  
Action 361087

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  361087
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 361087

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	361087
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	7/25/2024
amaxwell	A revegetation report will not be accepted until revegetation 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.	7/25/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	7/25/2024