



April 14, 2025

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

**Re: Remediation Report and Closure Report  
Maverick Permian, LLC  
Encore M State 21-001 Fee Release  
Unit Letter L, Section 21, Township 22 South, Range 37 East  
Lea County, New Mexico  
Incident ID# nAPP2321458559**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by Maverick Permian, LLC (Maverick) to assess and remediate a release that occurred from a jet pump failure at the stuffing box associated with the Encore M State 21-001 Fee Well (API 30-025-43444). The release footprint is in Public Land Survey System (PLSS) Unit Letter L, Section 21, Township 22 South, Range 37 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.3758490°, -103.1744511° as shown in **Figures 1 and 2**.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on August 2, 2023. Maverick Operations discovered the release on August 2, 2023; the cause of the release was a snapped stuffing box nut along the plunger on the jet pump associated with the Encore M State 21-001 Fee well, which led to a release of 22 barrels (bbls) of produced water constrained to the well pad. No fluids were recovered during the initial response. The NMOCD assigned the release Incident ID nAPP2321458559.

## 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 summarized below and included in **Attachment 1**.

### Site Characterization Summary

Shallowest Depth to Groundwater (feet bgs)	75-100 feet bgs
Method to determine depth to groundwater	OSE PODS Locations Mapper
Did this release impact groundwater or surface water	No
Distance to a continuously flowing watercourse	1 to 5 Miles
Distance to any lakebed, sinkhole, or playa lake	0.25 to 0.5 Miles
Distance to any occupied permanent residence, school, hospital, institution, or church	1 to 5 Miles

**Tetra Tech, Inc.**

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### Site Characterization Summary

Distance to A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	0.5 to 1 Miles
Distance to any other freshwater well or spring	0.5 to 1 miles
Distance to Incorporated municipal boundaries or a defined municipal freshwater well field	1 to 5 Miles
Distance to a wetland	0.25 to 0.5 Miles
Distance to a subsurface mine	> 5 Miles
Distance to an (non-karst) unstable area	> 5 Miles
Risk of the Site being in a karst geology	Low
Distance to a 100-year floodplain	> 5 Miles
Did the release impact areas not on an exploration, development, production, or storage site	No

### Receptors

Tetra Tech performed a site characterization for the release location and did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of low karst potential, as shown in **Attachment 1**.

### Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Pyote and Maljamar fine sands, dry, 0 to 3 percent slopes, which are classified as sands. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

### Depth to Groundwater

According to the New Mexico Office of State Engineer's (NMOSE) Reporting System, there are no water wells within 1 mile of the Site. Groundwater has been estimated as greater than 55 feet below ground surface based on a USGS groundwater well approximately 0.82 miles southeast of the Site with a water level of 65 feet, however, this well was last measured in 1972. The site characterization data is included in **Attachment 1**.

### Cultural Properties Protection

The footprint and remediation area of the release was constrained to the developed well pad, therefore, an Archaeological Records Management Section review was not necessary.

### 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

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(RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater not sufficiently proven as greater than 51 feet bgs are as follows:

#### Reclamation Requirements

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

## INITIAL RESPONSE ACTIVITIES

The release occurred due to a snapped-off jet pump stuffing box nut along the plunger, releasing produced water onto an approximately 15,000-square-foot area on the well pad, as shown in **Figure 3**. According to Site records, Maverick took initial response actions at the release site on August 2, 2023. Maverick responded to the site by stopping the release and replacing the stuffing box nut and plunger.

## REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on September 20, 2024, and concluded on October 11, 2024. Maverick's subcontractor, McNabb Partners (McNabb), used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of three (3) feet bgs as shown in **Figure 4**. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at least 2 feet away from pressurized lines where hydro-excavation and hand-digging were employed.

McNabb excavated 805 cubic yards of contaminated soil from an approximately 15,500-square-foot area and transported it to R360 for offsite disposal. Photographs of the final excavation are provided in **Attachment 2**.

## Confirmation Sampling Notification

On September 19, 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 October 11, 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 nAPP2321458559.

## Confirmation Sampling

Upon reaching the excavation's final lateral and vertical excavation extents, Tetra Tech collected 118 final confirmation samples, including 78 five-point composite floor samples and 40 five-point composite side wall samples from the excavated areas. The remediation excavation concluded as a varied ¼-foot, 1-foot, 2-foot, and

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3-foot deep excavation as shown in **Figure 4** with a total area of 15,500 square feet and a sampling density of approximately one confirmation sample per 200 square feet.

Initial base confirmation samples collected from locations BH-9, BH-14, BH-15, BH-16, BH-18, BH-19, BH-53, BH-54, SW-3, and SW-4 reported chloride and/or TPH concentrations as greater than the Reclamation Requirement, and these locations were over-excavated laterally and/or vertically and resampled after the receipt of initial sample results. The samples collected from these over-excavated areas and resampled.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, to analyze BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500Cl-B. 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 1**, and laboratory analytical data packages, including chain of custody documentation remediation confirmation sampling, are included in **Attachment 3**. Confirmation sampling locations and excavation extents are shown in **Figure 4**.

### Excavation Backfill

On October 11, 2024, subsequent to the receipt of confirmation sample results, McNabb completed the backfilling of the excavated areas with 700 cubic yards of clean caliche sourced from the nearby King Road Pit.

### Reclamation and Revegetation

No impacted surface areas were present off of the developed well pad, so reclamation and revegetation were not conducted as part of this remediation. Reclamation and revegetation will be conducted in accordance with NMOCD and New Mexico State Land Office (NMSLO) requirements at the end of the well pad's life, subsequent to well plugging and abandonment.

### CONCLUSION

Based on the confirmation sampling results, the impacted soil within the release footprint with concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite, the excavated area has been backfilled with clean material, and the surface of the well pad has been restored; therefore, Site remediation is complete. Reclamation and revegetation will be conducted at the end-of-life of the Encore M State 21-001 Fee. If you have any questions concerning the remediation activities for the Site, please call Charles Terhune at (832) 251-2093.

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 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment Map
- Figure 4 – Excavation Extents and Confirmation Sample Locations Map

### Tables

- Table 1 – Summary of Analytical Results – Assessment Sampling

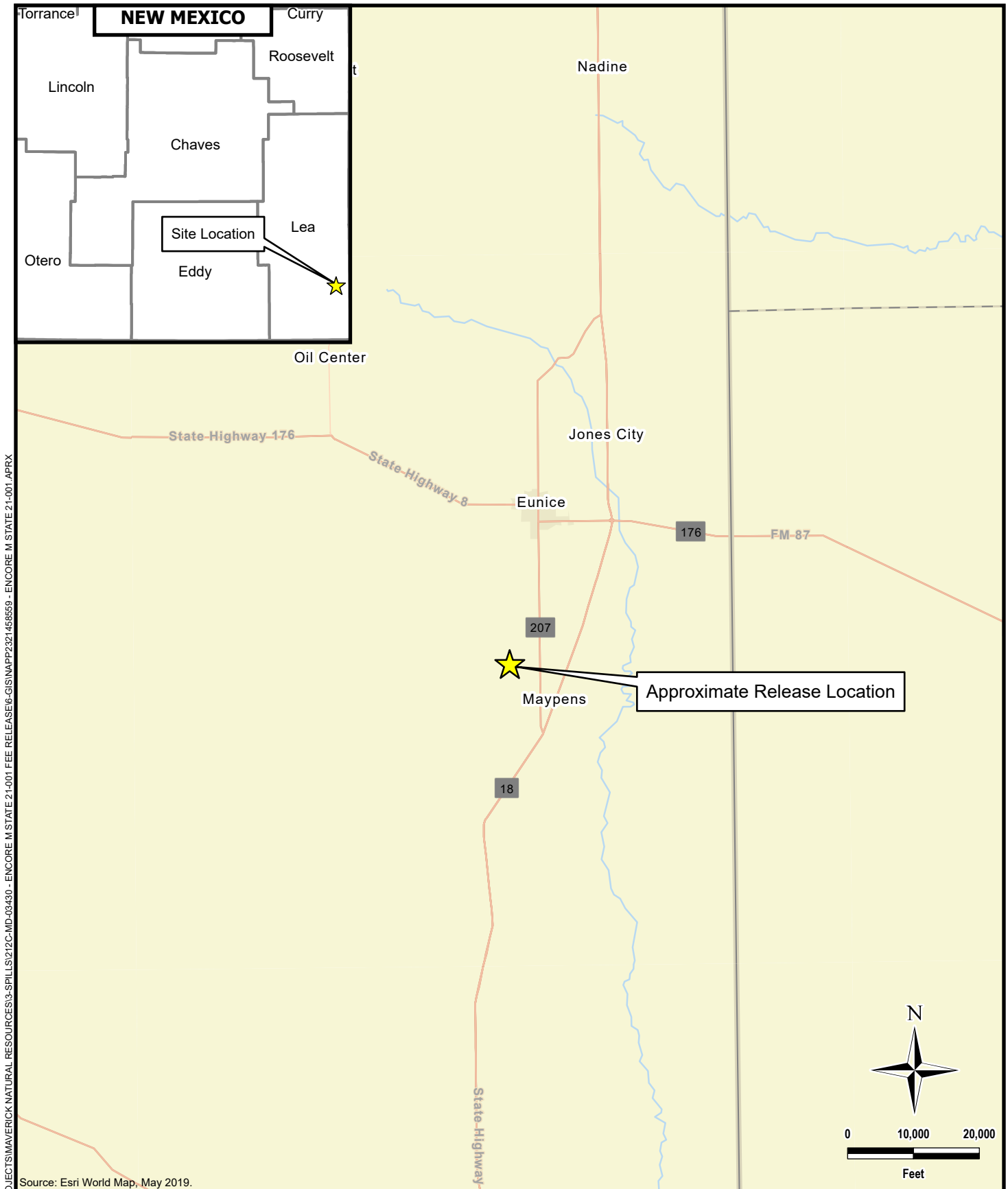
### Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Photographic Documentation
- Attachment 3 – Laboratory Analytical Data

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## FIGURES



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### SITE LOCATION MAP

nAPP2321458559  
ENCORE M STATE 21-001  
(32.3758490°, -103.1744511°)  
LEA COUNTY, NEW MEXICO

Figure No.

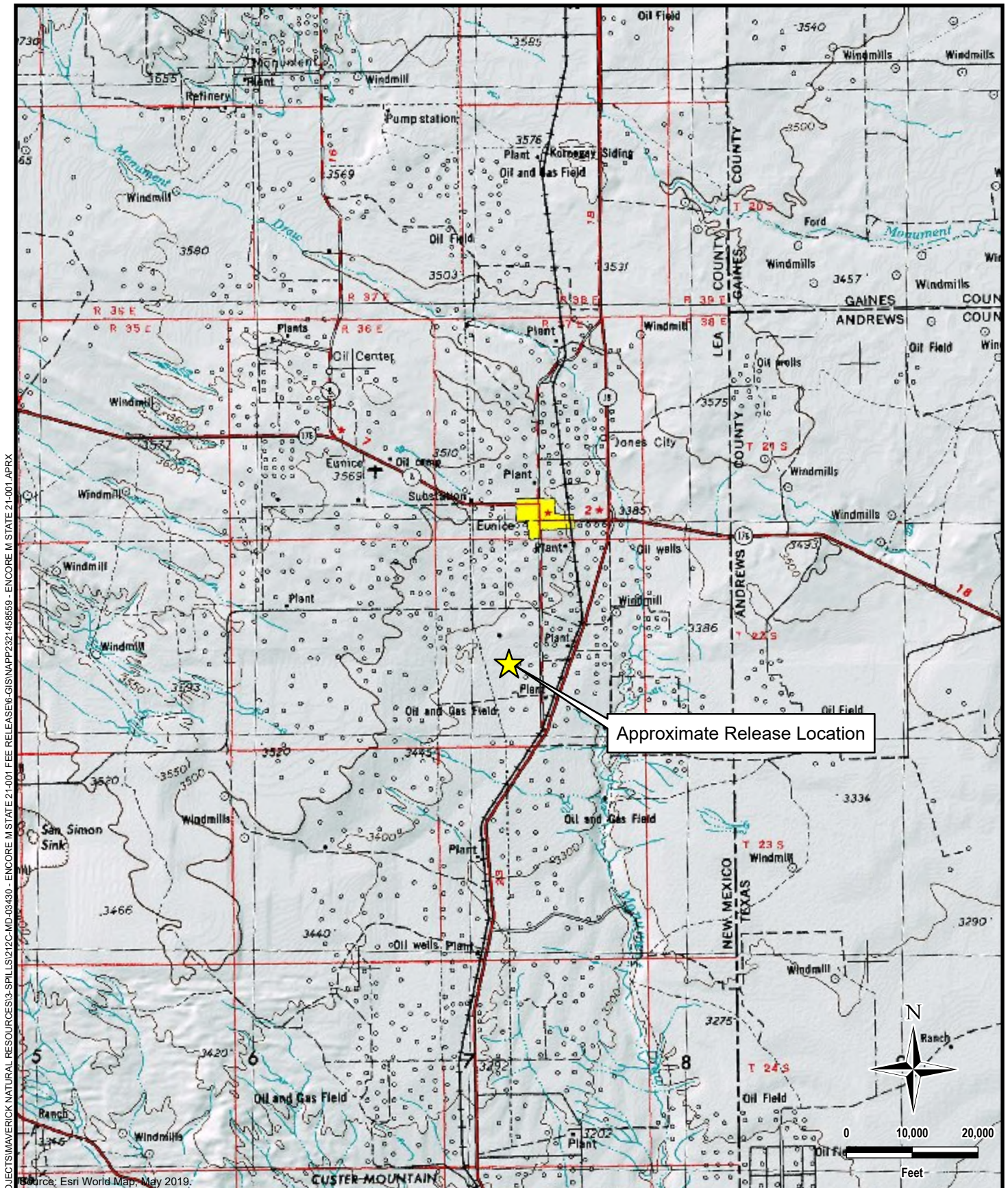
**1**

PROJECT NO.: 212C-MD-03430

DATE: 10/29/2024

DESIGNED BY: ACP





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## TOPOGRAPHIC MAP

nAPP2321458559  
ENCORE M STATE 21-001  
(32.3758490°, -103.1744511°)  
LEA COUNTY, NEW MEXICO

Figure No.

**2**

PROJECT NO.: 212C-MD-03430

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## RELEASE EXTENT AND SITE ASSESSMENT

nAPP2321458559  
ENCORE M STATE 21-001  
(32.3758490°, -103.1744511°)  
LEA COUNTY, NEW MEXICO

Figure No.

**3**

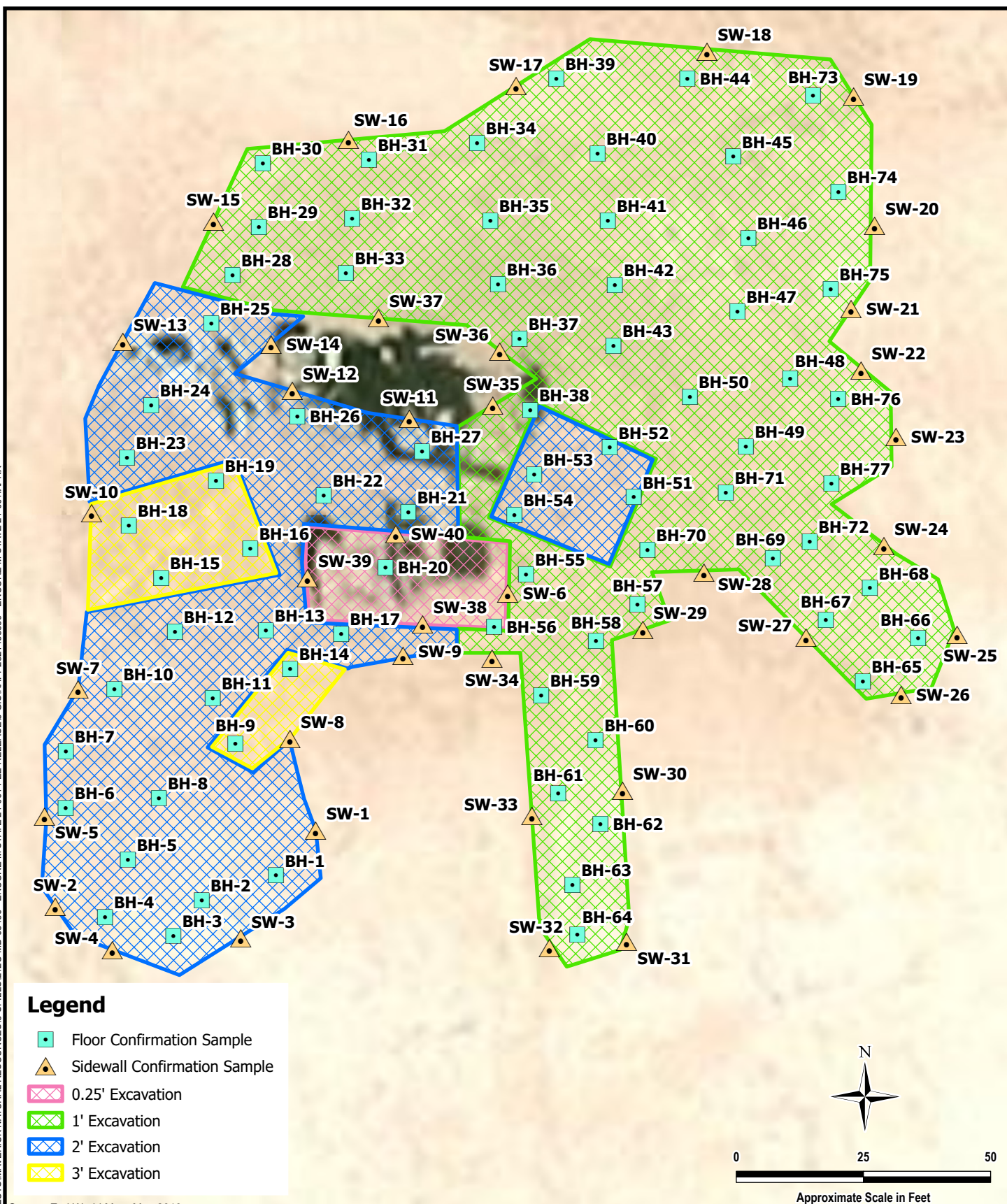
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## REMEDIATION EXTENT AND CONFIRMATION SAMPLING

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(32.3758490°, -103.1744511°)  
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Figure No.

**4**

PROJECT NO.: 212C-MD-03448

DATE: 4/14/2025

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TABLES





**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ASSESSMENT SAMPLING - INCIDENT ID NAPP2321458559**  
**MAVERICK PERMIAN, LLC**  
**ENCORE M STATE 21-001 FEE WELLHEAD RELEASE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEx <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
BH - 1 (2.0')	9/27/2024	2.0 - 2.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 (2.0')	9/27/2024	2.0 - 2.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 (2.0')	9/27/2024	2.0 - 2.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 (2.0')	9/27/2024	2.0 - 2.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 (2.0')	9/27/2024	2.0 - 2.5	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 (2.0')	9/30/2024	2.0 - 2.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 7 (2.0')	9/30/2024	2.0 - 2.5	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 8 (2.0')	9/30/2024	2.0 - 2.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 9 (2.0')	9/30/2024	2.0 - 2.5	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 9 (3.0')	10/4/2024	3.0 - 3.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 10 (2.0')	9/30/2024	2.0 - 2.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 11 (2.0')	9/30/2024	2.0 - 2.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 12 (2.0')	9/30/2024	2.0 - 2.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 13 (2.0')	9/30/2024	2.0 - 2.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 14 (2.0')	9/30/2024	2.0 - 2.5	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 14 (3.0')	10/4/2024	2.0 - 2.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 15 (2.0')	9/30/2024	3.0 - 3.5	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 15 (3.0')	10/4/2024	3.0 - 3.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 16 (2.0')	9/30/2024	2.0 - 2.5	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 16 (3.0')	10/4/2024	3.0 - 3.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 17 (2.0')	9/30/2024	2.0 - 2.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 18 (2.0')	9/30/2024	2.0 - 2.5	1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 18 (3.0')	10/4/2024	3.0 - 3.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 19 (2.0')	9/30/2024	2.0 - 2.5	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15.6		10.9		26.5	
BH - 19 (3.0')	10/4/2024	3.0 - 3.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 20 (.25)	10/3/2024	0.0 - 0.25	590		<0.050		<0.050		<0.050		<0.150		<0.300		10.1		9.5		39.8		59	
BH - 21 (2.0')	10/4/2024	2.0 - 2.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 22 (2.0')	10/2/2024	2.0 - 2.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 23 (2.0')	9/30/2024	2.0 - 2.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 24 (2.0')	9/30/2024	2.0 - 2.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 25 (2.0')	9/30/2024	2.0 - 2.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 26 (2.0')	10/2/2024	2.0 - 2.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 27 (2.0')	10/2/2024	2.0 - 2.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 28	-	-	Sample ID Skipped																			
BH - 29 (1.0')	9/26/2024	1.0 - 1.5	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 30 (1.0')	9/26/2024	1.0 - 1.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 31 (1.0')	9/27/2024	1.0 - 1.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ASSESSMENT SAMPLING - INCIDENT ID NAPP2321458559**  
**MAVERICK PERMIAN, LLC**  
**ENCORE M STATE 21-001 FEE WELLHEAD RELEASE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEx <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH (GRO+DRO+EXT DRO)	
		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			
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
BH - 32 (1.0')	9/26/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 33 (1.0')	9/26/2024	1.0 - 1.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 34 (1.0')	9/23/2024	1.0 - 1.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 34 (1.0')	9/27/2024	1.0 - 1.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 35 (1.0')	9/23/2024	1.0 - 1.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 35 (1.0')	9/26/2024	1.0 - 1.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 36 (1.0')	9/23/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 36 (1.0')	9/26/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 37 (1.0')	9/23/2024	1.0 - 1.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 38 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 39 (1.0')	9/23/2024	1.0 - 1.5	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 39 (1.0')	9/26/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 40 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 40 (1.0')	9/26/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 41 (1.0')	9/23/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 41 (1.0')	9/26/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 42 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 43 (1.0')	9/23/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 43 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 44 (1.0')	9/23/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 45 (1.0')	9/26/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 46 (1.0')	9/23/2024	1.0 - 1.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 47 (1.0')	9/26/2024	1.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 48 (1.0')	9/23/2024	1.0 - 1.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 48 (1.0')	9/23/2024	1.0 - 1.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 49 (1.0')	9/23/2024	1.0 - 1.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 50 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 50 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 51 (1.0')	9/27/2024	1.0 - 1.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 52 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 53 (1.0')	9/25/2024	1.0 - 1.5	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 53 (1.0')	9/25/2024	1.0 - 1.5	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 53 (2.0')	9/30/2024	2.0 - 2.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 54 (1.0')	9/25/2024	1.0 - 1.5	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		50.1		<10.0		50.1	
BH - 54 (2.0')	9/30/2024	2.0 - 2.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 55 (1.0')	9/25/2024	1.0 - 1.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 56 (1.0')	9/25/2024	1.0 - 1.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ASSESSMENT SAMPLING - INCIDENT ID NAPP2321458559**  
**MAVERICK PERMIAN, LLC**  
**ENCORE M STATE 21-001 FEE WELLHEAD RELEASE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEx <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH (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>						
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
BH - 57 (1.0')	9/27/2024	1.0 - 1.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 58 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 59 (1.0')	9/25/2024	1.0 - 1.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 60 (1.0')	9/25/2024	1.0 - 1.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 61 (1.0')	9/25/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 62 (1.0')	9/25/2024	1.0 - 1.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 63 (1.0')	9/30/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 64 (1.0')	9/25/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 65 (1.0')	9/23/2024	1.0 - 1.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 66 (1.0')	9/23/2024	1.0 - 1.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 66 (1.0')	9/25/2024	1.0 - 1.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 67 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 68 (1.0')	9/23/2024	1.0 - 1.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 69 (1.0')	9/23/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 70 (1.0')	9/27/2024	1.0 - 1.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 71 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 72 (1.0')	9/23/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 73 (1.0')	9/23/2024	1.0 - 1.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 74 (1.0')	9/23/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 75 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 75 (1.0')	9/26/2024	1.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 76 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 76 (1.0')	9/27/2024	1.0 - 1.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 77 (1.0')	9/23/2024	1.0 - 1.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 78 (2.0')	10/4/2024	2.0 - 2.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	10/2/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	10/2/2024	0.0 - 2.0	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	9/27/2024	0.0 - 2.0	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		99.3		33.9		133.2	
SW - 3	10/2/2024	0.0 - 2.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	9/27/2024	0.0 - 2.0	1,650		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		694		276		970	
SW - 4	10/2/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	10/2/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	10/3/2024	0.25 - 1.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	10/2/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	10/2/2024	0.0 - 3.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	10/2/2024	0.0 - 2.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10	10/2/2024	0.0 - 3.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ASSESSMENT SAMPLING - INCIDENT ID NAPP2321458559**  
**MAVERICK PERMIAN, LLC**  
**ENCORE M STATE 21-001 FEE WELLHEAD RELEASE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEx <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		ORO		Total TPH	
												C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>		(GRO+DRO+EXT DRO)				
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
SW - 11	10/2/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12	10/2/2024	0.0 - 2.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 13	10/2/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 14	10/2/2024	0.0 - 2.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 15	9/26/2024	0.0 - 1.0	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16	9/26/2024	0.0 - 1.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 17	9/26/2024	0.0 - 1.0	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 19	9/24/2024	0.0 - 1.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 20	9/24/2024	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 21	9/24/2024	0.0 - 1.0	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 22	9/24/2024	0.0 - 1.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 23	9/24/2024	0.0 - 1.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 24	9/24/2024	0.0 - 1.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 25	9/24/2024	0.0 - 1.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 26	9/24/2024	0.0 - 1.0	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 27	9/24/2024	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 28	9/24/2024	0.0 - 1.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 29	9/24/2024	0.0 - 1.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 30	9/24/2024	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 31	9/25/2024	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 32	9/25/2024	0.0 - 1.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 33	9/25/2024	0.0 - 1.0	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 34	9/25/2024	0.0 - 1.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 35	9/26/2024	0.0 - 1.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 36	9/26/2024	0.0 - 1.0	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 37	9/26/2024	0.0 - 1.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 38	10/3/2024	0.25 - 2.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		16.6		10.5		27.1	
SW - 39	10/3/2024	0.25 - 2.0	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 40	10/3/2024	0.25 - 2.0	540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

**NOTES:**

s: Below ground surface  
 g: Milligrams per kilogram  
 tal Petroleum Hydrocarbons

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

1: Method 300.0  
 2: Method 8021B  
 3: Method 8015M

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

Remediation Report and Closure Request  
Encore M State 21-001 Fee Release  
Incident ID# nAPP2321458559

Maverick Permian, LLC  
April 14, 2025

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">CP 00391 POD1</a>		CP	LE	SE	SE	SE	17	22S	37E	671426.0	3584623.0 *		1106	96		
<a href="#">CP 00503</a>		CP	LE		SE	SE	21	22S	37E	672965.0	3583144.0 *		1295	115	65	50
<a href="#">CP 00911</a>		CP	LE	NE	SE	SE	21	22S	37E	673034.0	3583288.5		1323	153		
<a href="#">CP 01101 POD1</a>		CP	LE	NE	SE	SE	21	22S	37E	673063.9	3583281.4		1354	142		
<a href="#">CP 00081 POD1</a>		CP	LE	NE	SE	SE	21	22S	37E	673064.0	3583243.0 *		1362	120		
<a href="#">CP 00245 POD1</a>		CP	LE	SW	SE	SE	16	22S	37E	672835.0	3584652.0 *		1545	136		
<a href="#">CP 00256 POD1</a>	R	CP	LE	NW	SW	SW	22	22S	37E	673266.0	3583250.0 *		1558	146		
<a href="#">CP 00246 POD1</a>		CP	LE	NE	SW	SE	16	22S	37E	672633.0	3584845.0 *		1563	135		

Average Depth to Water: 65 feet

Minimum Depth: 65 feet

Maximum Depth: 65 feet

Record Count: 8

UTM Filters (in meters):

Easting: 671739.099

Northing: 3583561.699

Radius: 001600

\* 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.



## Encore M State 21-001 Fee OCD Well Locations



10/23/2024, 2:30:33 PM

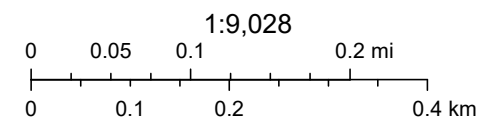
Override 1  
 Wells - Large Scale

Injection, Active

Injection, Plugged  
 Oil, Active

Oil, Cancelled  
 Oil, Plugged

Karst Occurrence Potential  
 Low

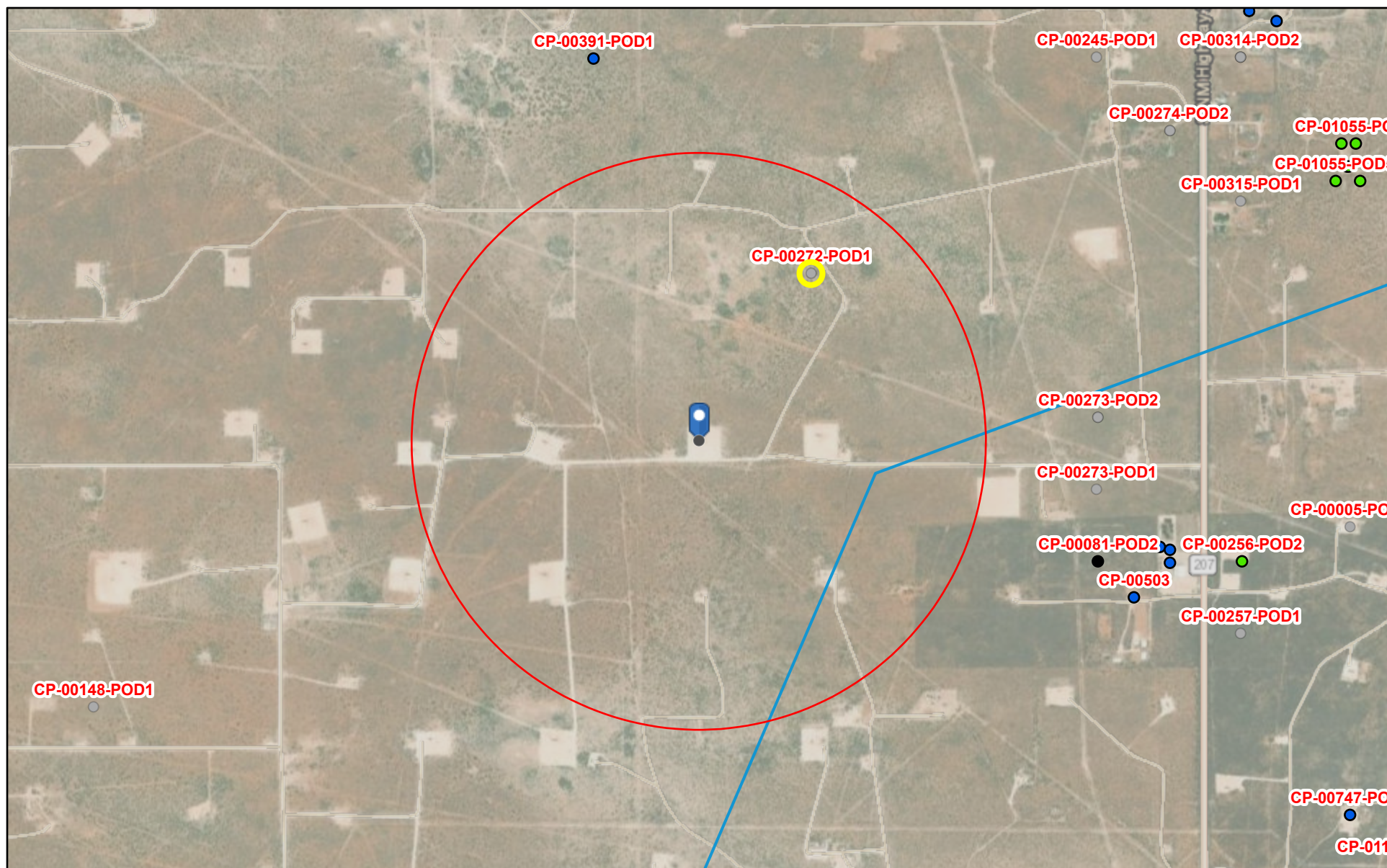


BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

Released to Imaging: 6/23/2025 1:46:20 PM



## Encore M State 21-001 OSE POD Location Map



10/24/2024, 7:32:50 PM

GIS WATERS PODs

● Active

● Pending

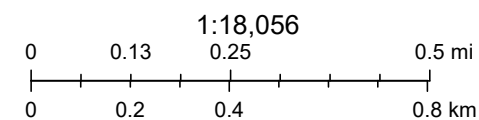
● Inactive

●

Water Right Regulations

Closure Area

Artesian Planning Area



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

Online web user

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



# National Flood Hazard Layer FIRMette



103°10'47"W 32°22'48"N



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

1:6,000

103°10'9"W 32°22'18"N

Released to Imaging: 6/23/2025 4:46:20 PM

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 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect 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.

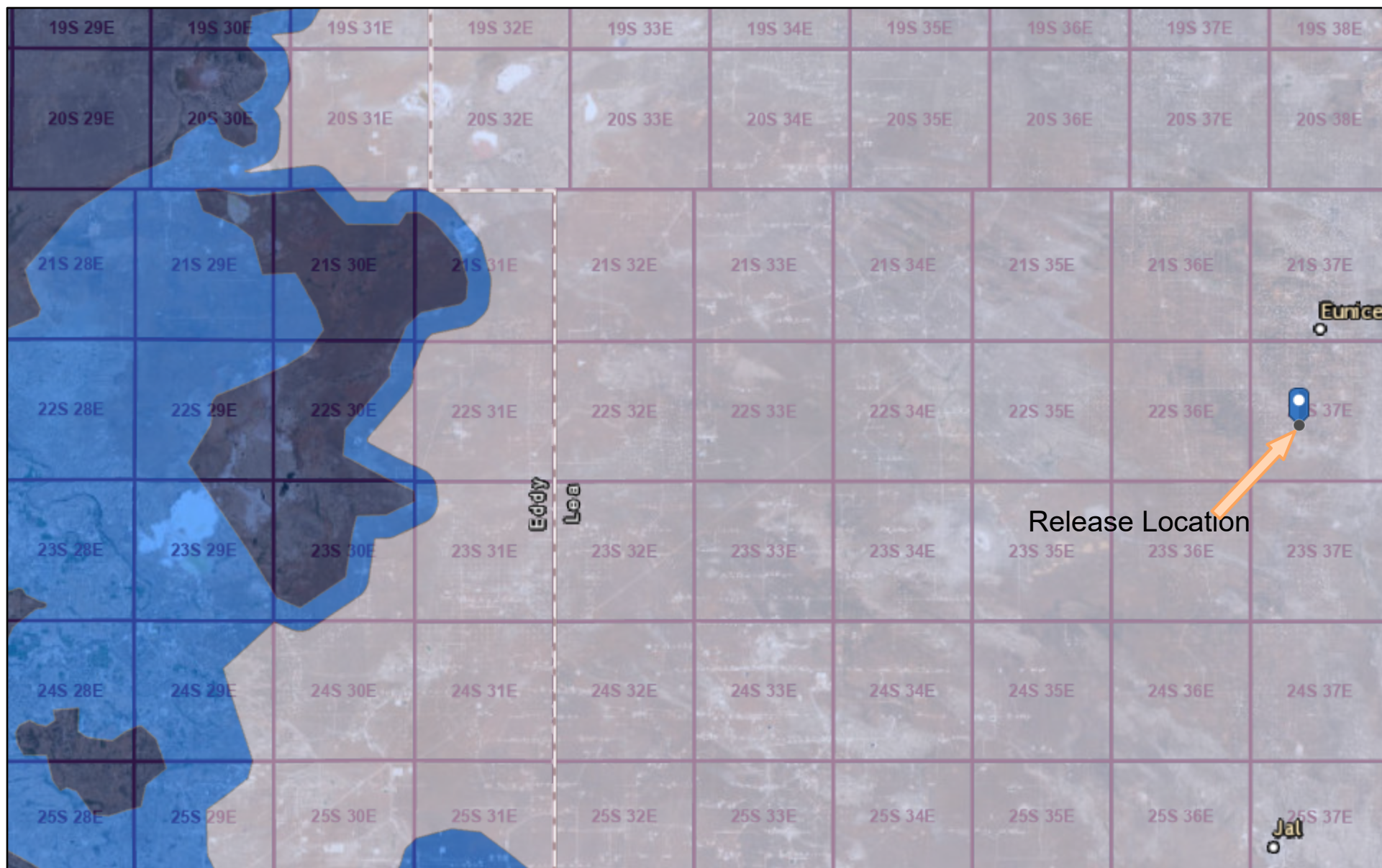
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/28/2024 at 12:10 PM 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.

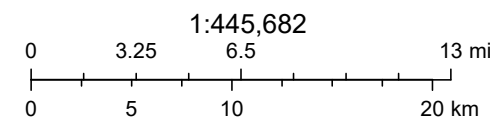
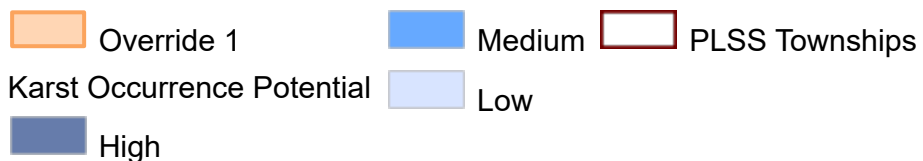
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



# Encore M State 21-001 Fee Release Karst Potential Map



10/28/2024, 8:13:42 AM



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics, BLM

New Mexico Oil Conservation Division



## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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No report data available.

### **UTM Filters (in meters):**

**Easting:** 671739.099

**Northing:** 3583561.699

**Radius:** 000800

\* UTM location was derived from PLSS - see Help

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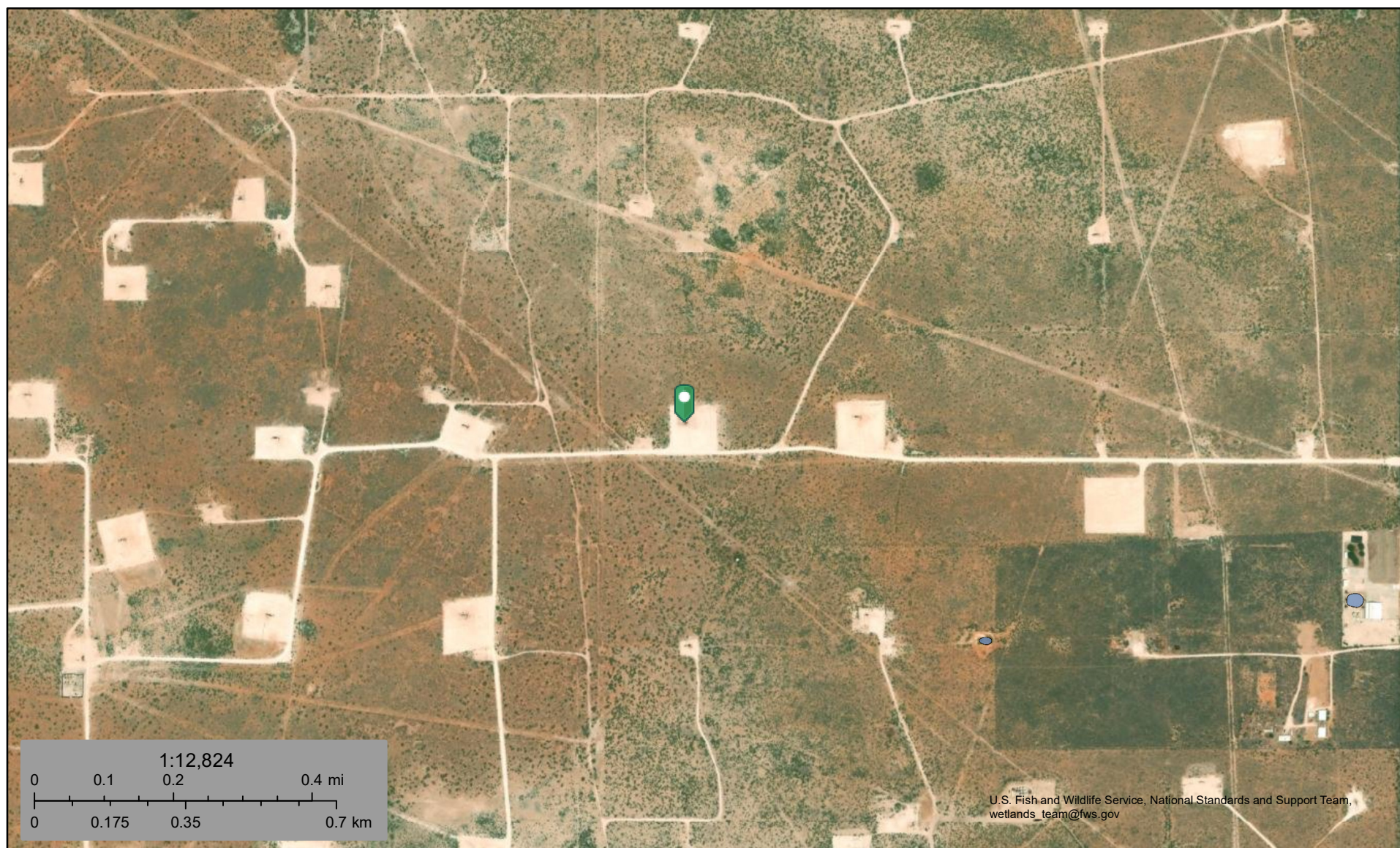
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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## Encore M State 21-001 Fee Release



October 25, 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.





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

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

# Custom Soil Resource Report for **Lea County, New Mexico**

**Encore M State 21-001 Fee  
Release**



October 24, 2024

# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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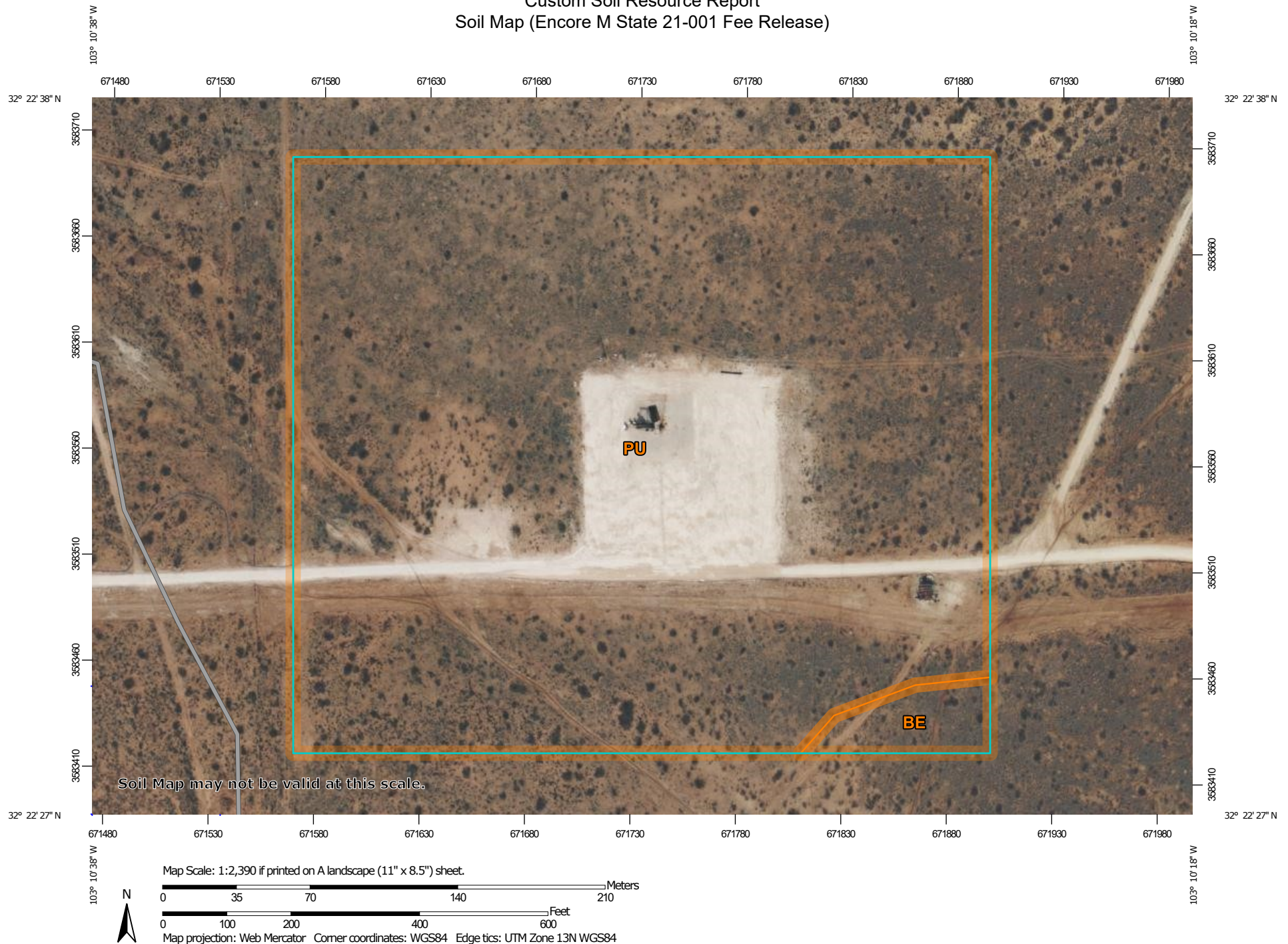
**References**..... 14

## Soil Map

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


Custom Soil Resource Report  
Soil Map (Encore M State 21-001 Fee Release)



## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals


## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 21, Sep 3, 2024

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

Date(s) aerial images were photographed: Jan 18, 2020—Feb 17, 2020

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

## Custom Soil Resource Report

## Map Unit Legend (Encore M State 21-001 Fee Release)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	0.6	2.5%
PU	Pyote and Maljamar fine sands	22.5	97.5%
<b>Totals for Area of Interest</b>		<b>23.0</b>	<b>100.0%</b>

## Map Unit Descriptions (Encore M State 21-001 Fee Release)

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or



## Custom Soil Resource Report

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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



## Custom Soil Resource Report

## Lea County, New Mexico

**BE—Berino-Cacique loamy fine sands association****Map Unit Setting**

*National map unit symbol:* dmpd  
*Elevation:* 3,000 to 3,900 feet  
*Mean annual precipitation:* 10 to 13 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Berino and similar soils:* 50 percent  
*Cacique and similar soils:* 40 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Berino****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

**Typical profile**

*A - 0 to 6 inches:* loamy fine sand  
*Btk - 6 to 60 inches:* sandy clay loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7c  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Cacique****Setting**

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

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

**Typical profile**

*A - 0 to 12 inches:* loamy fine sand

*Bt - 12 to 28 inches:* sandy clay loam

*Bkm - 28 to 38 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 20 to 40 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:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 3.6 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7c

*Hydrologic Soil Group:* C

*Ecological site:* R070BD004NM - Sandy

*Hydric soil rating:* No

**Minor Components****Maljamar**

*Percent of map unit:* 6 percent

*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ

*Hydric soil rating:* No

**Palomas**

*Percent of map unit:* 4 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

## Custom Soil Resource Report

**PU—Pyote and Maljamar fine sands****Map Unit Setting**

*National map unit symbol:* dmqq  
*Elevation:* 3,000 to 3,900 feet  
*Mean annual precipitation:* 10 to 12 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pyote and similar soils:* 46 percent  
*Maljamar and similar soils:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pyote****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 30 inches:* fine sand  
*Bt - 30 to 60 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 5 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* A

## Custom Soil Resource Report

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Description of Maljamar****Setting**

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

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

**Typical profile**

*A - 0 to 24 inches:* fine sand

*Bt - 24 to 50 inches:* sandy clay loam

*Bkm - 50 to 60 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 40 to 60 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very low

*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:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.6 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 10 percent

*Ecological site:* R070BC022NM - Sandhills

*Hydric soil rating:* No

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- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)
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- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
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- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>

## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

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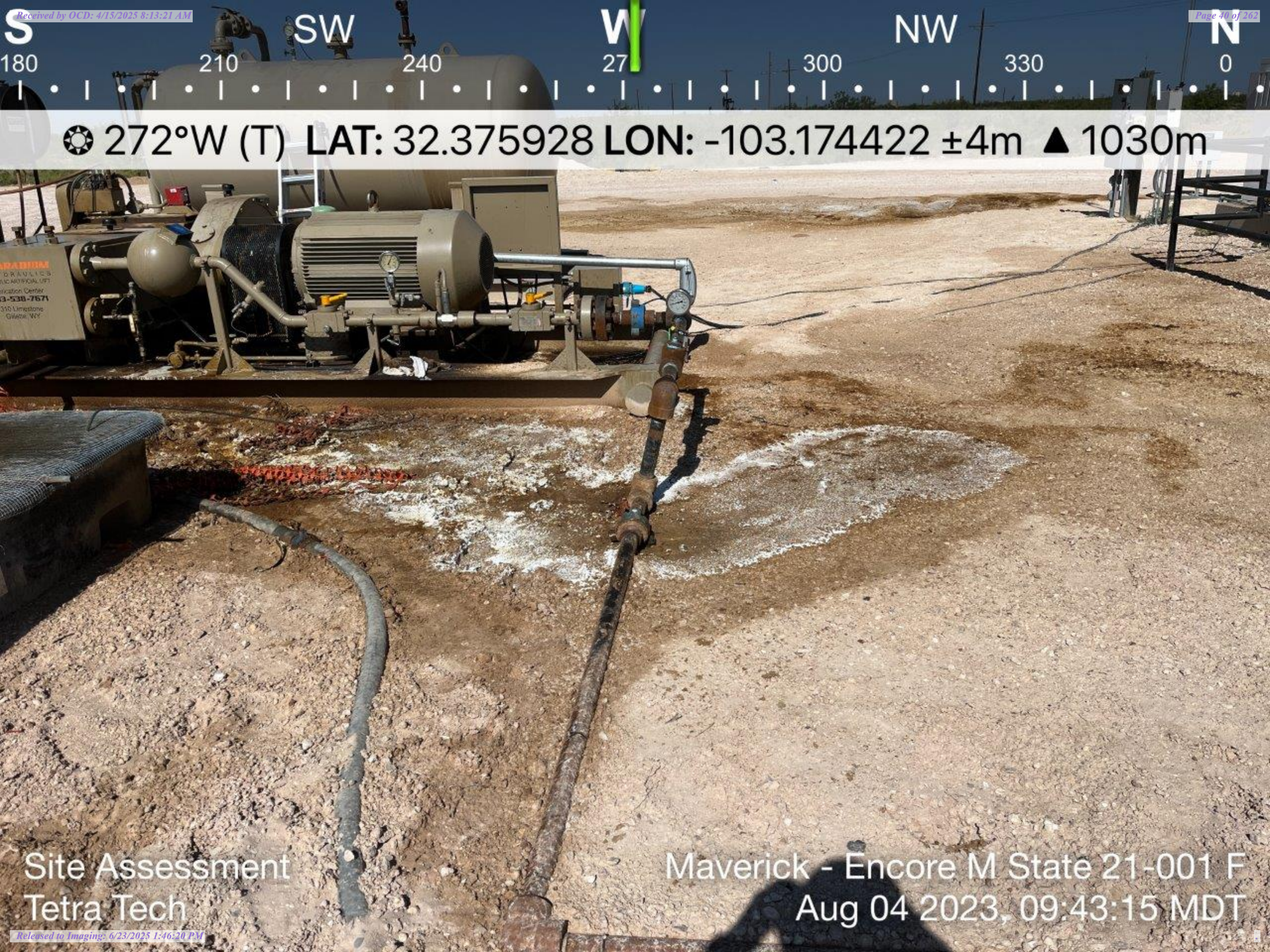


Remediation Report and Closure Request  
Encore M State 21-001 Fee Release  
Incident ID# nAPP2321458559

Maverick Permian, LLC  
April 14, 2025

## **ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION**





☉ 272°W (T) LAT: 32.375928 LON: -103.174422 ±4m ▲ 1030m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:43:15 MDT



SW

W

NW

N

210

240

270

300

330

0

☉ 280°W (T) LAT: 32.375887 LON: -103.174391 ±4m ▲ 1029m



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:43:30 MDT





☉ 327°NW (T) LAT: 32.375949 LON: -103.174472 ±4m ▲ 1029m

<b>DANGER</b> HIGH VOLTAGE KEEP OUT	<b>DANGER</b> AUTHORIZED PERSONNEL ONLY
<b>DANGER</b> DO NOT ENTER	<b>DANGER</b> THIS UNIT STARTS AUTOMATICALLY
<b>DANGER</b> NO SMOKING, MATCHES OR OPEN LIGHTS	<b>DANGER</b> H2S MAY BE PRESENT

**MAVERICK**  
OIL RESOURCES  
**BreitBurn Operating L.P.**  
**1-866-616-9445**

Operating L.P.

ENCORE M 21 FEE 001  
UL-L, SEC. 21, T22S, R37E  
2130' FSL & 660' FWL  
API #30-025-43444  
ELEV. 3364', LEA CO., N.M.  
NM 316831





☀ 95°E (T) LAT: 32.375955 LON: -103.174576 ±4m ▲ 1029m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:44:07 MDT





☉ 8°N (T) LAT: 32.375748 LON: -103.174424 ±4m ▲ 1030m



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:44:58 MDT





☉ 8°N (T) LAT: 32.375747 LON: -103.174426 ±4m ▲ 1029m



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:02 MDT





☀ 359°N (T) LAT: 32.375762 LON: -103.174593 ±4m ▲ 1030m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:18 MDT





☉ 69°E (T) **LAT: 32.375781 LON: -103.174619 ±4m ▲ 1030m**



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:25 MDT





☉ 86°E (T) LAT: 32.375854 LON: -103.174720 ±4m ▲ 1030m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
- Aug 04 2023, 09:45:38 MDT





☉ 86°E (T) LAT: 32.375870 LON: -103.174708 ±4m ▲ 1029m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:42 MDT



NE

E

SE

S

30

60

90

120

150

180

☉ 101°E (T) LAT: 32.375980 LON: -103.174700 ±4m ▲ 1030m



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:54 MDT



NE

E

SE

S

30

60

90

120

150

180

☉ 101°E (T) LAT: 32.375977 LON: -103.174703 ±4m ▲ 1029m



Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:45:58 MDT





☉ 222°SW (T) LAT: 32.376096 LON: -103.174539 ±4m ▲ 1029m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:46:29 MDT





☉ 222°SW (T) LAT: 32.376098 LON: -103.174528 ±4m ▲ 1029m

Site Assessment  
Tetra Tech

Maverick - Encore M State 21-001 F  
Aug 04 2023, 09:46:34 MDT





☉ 98°E (T) LAT: 32.375866 LON: -103.174624 ±3m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:08:00 MDT





☀ 114°SE (T) LAT: 32.375957 LON: -103.174593 ±3m ▲ 1030m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:08:10 MDT





☉ 91°E (T) LAT: 32.375950 LON: -103.174598 ±4m ▲ 1031m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:08:16 MDT





☉ 109°E (T) LAT: 32.375939 LON: -103.174502 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

- Maverick- Encore M 21  
Oct 02 2024, 11:08:36 MDT





W

NW

N

NE

240 270 300 330 0 30 60

☉ 330°NW (T) LAT: 32.375985 LON: -103.174390 ±4m ▲ 1027m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:09:20 MDT





☀ 40°NE (T) LAT: 32.375599 LON: -103.174723 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:12:00 MDT





☀ 19°N (T) LAT: 32.375621 LON: -103.174700 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:12:07 MDT





☉ 140°SE (T) LAT: 32.375802 LON: -103.174699 ±4m ▲ 1028m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:13:00 MDT



NE

E

SE

S

30

60

90

120

150

180

☉ 96°E (T) LAT: 32.375913 LON: -103.174682 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:13:17 MDT





☉ 163°S (T) LAT: 32.376207 LON: -103.174437 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:15:38 MDT



SW

W

NW

N

210

240

270

300

330

0

☉ 286°W (T) LAT: 32.376035 LON: -103.174332 ±4m ▲ 1029m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:16:01 MDT



SW

W

NW

N

210

240

270

300

330

0

☀ 286°W (T) LAT: 32.376036 LON: -103.174328 ±4m ▲ 1028m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 02 2024, 11:16:04 MDT





☉ 181°S (T) **LAT: 32.375772 LON: -103.174487 ±3m ▲ 1027m**



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 04 2024, 09:44:31 MDT





☉ 346°N (T) LAT: 32.375793 LON: -103.174571 ±3m ▲ 1029m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 04 2024, 09:47:55 MDT





☉ 179°S (T) LAT: 32.375817 LON: -103.174610 ±3m ▲ 1030m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 04 2024, 09:48:04 MDT





☀ 172°S (T) LAT: 32.375643 LON: -103.174744 ±4m ▲ 1026m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:47:42 MDT





Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:47:46 MDT



NE

E

SE

S

30

60

90

120

150

180

210

☀ 117°SE (T) LAT: 32.375621 LON: -103.174408 ±4m ▲ 1026m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:48:17 MDT





☀ 29°NE (T) LAT: 32.376151 LON: -103.174354 ±4m ▲ 1026m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:50:30 MDT





☀ 143°SE (T) LAT: 32.376076 LON: -103.174735 ±4m ▲ 1024m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:51:26 MDT



☀ 45°NE (T) LAT: 32.375708 LON: -103.174750 ±4m ▲ 1025m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 09 2024, 14:52:12 MDT





NW

N

NE

E

300

330

0

30

60

90

1

☀ 24°NE (T) LAT: 32.375971 LON: -103.174418 ±4m ▲ 1024m

Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 11 2024, 14:14:03 MDT





☉ 254°W (T) LAT: 32.376140 LON: -103.174111 ±4m ▲ 1023m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 11 2024, 14:14:46 MDT



W

NW

N

NE

270

300

330

0

30

60

☉ 342°N (T) LAT: 32.375539 LON: -103.174258 ±3m ▲ 1026m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 11 2024, 14:18:03 MDT





☉ 338°N (T) LAT: 32.375561 LON: -103.174176 ±4m ▲ 1022m



Site Remediation  
Tetra Tech

Maverick- Encore M 21  
Oct 11 2024, 14:18:13 MDT



Remediation Report and Closure Request  
Encore M State 21-001 Fee Release  
Incident ID# nAPP2321458559

Maverick Permian, LLC  
April 14, 2025

## **ATTACHMENT 3 – LABORATORY ANALYTICAL DATA**





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

September 26, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/23/24 15:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 66 ( 1.0' ) (H245759-01)**

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	09/24/2024	ND	2.05	103	2.00	0.0587	
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	09/24/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 68 ( 1.0' ) (H245759-02)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	32.0	16.0	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 67 ( 1.0' ) (H245759-03)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 65 ( 1.0' ) (H245759-04)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 73 ( 1.0' ) (H245759-05)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	48.0	16.0	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 74 ( 1.0' ) (H245759-06)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	09/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 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:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 37 ( 1.0' ) (H245759-07)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	112	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 48 ( 1.0' ) (H245759-08)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 46 ( 1.0' ) (H245759-09)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	192	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 44 ( 1.0' ) (H245759-10)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 40 ( 1.0' ) (H245759-11)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 41 ( 1.0' ) (H245759-12)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	240	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 50 ( 1.0' ) (H245759-13)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	64.0	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	214	107	200	3.05	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	203	102	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 43 ( 1.0' ) (H245759-14)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 39 ( 1.0' ) (H245759-15)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	256	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 34 ( 1.0' ) (H245759-16)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	176	16.0	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 35 ( 1.0' ) (H245759-17)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	224	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 36 ( 1.0' ) (H245759-18)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 75 ( 1.0' ) (H245759-19)**

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	09/24/2024	ND	2.05	103	2.00	0.0587		
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 76 ( 1.0' ) (H245759-20)**

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	09/24/2024	ND	2.05	103	2.00	0.0587	
Toluene*	<0.050	0.050	09/24/2024	ND	2.02	101	2.00	0.537	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	6.28	105	6.00	0.629	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	176	16.0	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 48 ( 1.0' ) (H245759-21)**

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	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	224	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 49 ( 1.0' ) (H245759-22)**

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	09/24/2024	ND	2.22	111	2.00	6.00	
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 77 ( 1.0' ) (H245759-23)**

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	09/24/2024	ND	2.22	111	2.00	6.00	
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 42 ( 1.0' ) (H245759-24)**

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	09/24/2024	ND	2.22	111	2.00	6.00	
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3	
Total BTEX	<0.300	0.300	09/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 71 ( 1.0' ) (H245759-25)**

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	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	64.0	16.0	09/25/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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: 09/23/2024  
 Reported: 09/26/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/23/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 72 ( 1.0' ) (H245759-26)**

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	09/24/2024	ND	2.22	111	2.00	6.00	
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54	
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0	
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3	
Total BTEX	<0.300	0.300	09/24/2024	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	208	16.0	09/25/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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**Analytical Results For:**

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

Received:	09/23/2024	Sampling Date:	09/23/2024
Reported:	09/26/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 69 ( 1.0' ) (H245759-27)**

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	09/24/2024	ND	2.22	111	2.00	6.00		
Toluene*	<0.050	0.050	09/24/2024	ND	2.35	117	2.00	9.54		
Ethylbenzene*	<0.050	0.050	09/24/2024	ND	2.57	128	2.00	13.0		
Total Xylenes*	<0.150	0.150	09/24/2024	ND	7.79	130	6.00	13.3		
Total BTEX	<0.300	0.300	09/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/24/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2024	ND	183	91.6	200	0.247	
DRO >C10-C28*	<10.0	10.0	09/24/2024	ND	191	95.5	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	09/24/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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 "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





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

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## Analysis Request of Chain of Custody Record

Page 3 of 3



## 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:

Encore M State 21-001

281-755-8965

Project Location:

Lea County, NM

Project #:

212C-MD-03430

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

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com

## SAMPLE IDENTIFICATION

LAB #

YEAR: 2023

DATE

TIME

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.)

LAB USE ONLY

REMARKS:

Standard TAT

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

☒ RUSH

Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

ORIGINAL COPY





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September 27, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/24/24 16:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/27/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 19 (H245808-01)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	09/24/2024	Sampling Date:	09/24/2024
Reported:	09/27/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW 20 (H245808-02)**

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	09/26/2024	ND	2.06	103	2.00	1.54		
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 21 (H245808-03)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 22 (H245808-04)**

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	09/26/2024	ND	2.06	103	2.00	1.54		
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47		
Total BTEx	<0.300	0.300	09/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 23 (H245808-05)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 24 (H245808-06)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 25 (H245808-07)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 26 (H245808-08)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	144	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 27 (H245808-09)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTEX	<0.300	0.300	09/26/2024	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	32.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 28 (H245808-10)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 29 (H245808-11)**

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	09/26/2024	ND	2.06	103	2.00	1.54		
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47		
Total BTEx	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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: 09/24/2024  
 Reported: 09/27/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW 30 (H245808-12)**

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	09/26/2024	ND	2.06	103	2.00	1.54	
Toluene*	<0.050	0.050	09/26/2024	ND	2.15	108	2.00	2.39	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	2.29	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	6.93	116	6.00	4.47	
Total BTX	<0.300	0.300	09/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	206	103	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	212	106	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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.
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", is written over a horizontal line.

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

<b>Company Name:</b> TetraTech <b>Project Manager:</b> Adnan Garea <b>Address:</b> 901 W. Wall St <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79705 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> 212C-WD-03430 <b>Project Owner:</b> Mavrick <b>Project Name:</b> Encore M State 21-001 Surface Remed. <b>Project Location:</b> Lea Co. NM <b>Sampler Name:</b> AG				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> TetraTech <b>Attn:</b> Chuck Terhies <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>			
FOR LAB USE ONLY				ANALYSIS REQUEST			
<b>Lab I.D.</b> 11245808		<b>Sample I.D.</b>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
SW 19 SW 20 SW 21 SW 22 SW 23 SW 24 SW 25 SW 26 SW 27 SW 28		1 1 1 1 1 1 1 1 1 1		9/24 8:00 8:15 8:30 8:45 8:50 9:00 9:15 9:30 9:45 9:50		Chloride TPH BTEX	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
<b>Relinquished By:</b> [Signature] Date: 9/24 Time: 4:20				<b>Received By:</b> [Signature] Date: 9/24-24 Time: 10:24			
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 54.4 Corrected Temp. °C: 4.8 Sample Condition: Cool Intact Checked BY: (Initials) AG			
Turnaround Time: Standard Rush Thermometer ID #140 Correction Factor -0.8°C				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C			
REMARKS: Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:							

Form 1000 Rev 06/09/24

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Tetra Tech <b>Project Manager:</b> Adrien Garen <b>Address:</b> <b>City:</b> State: Zip: <b>Phone #:</b> Fax #: <b>Project #:</b> 212C-MD-03430 <b>Project Owner:</b> Havence <b>Project Name:</b> Encore M State 21-09 <b>Project Location:</b> WGA Co. NM <b>Sampler Name:</b> AG				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> State: Zip: <b>Phone #:</b> Fax #:				<b>ANALYSIS REQUEST</b>											
<b>FOR LAB USE ONLY</b>				<b>MATRIX</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				<b>PRESERV</b> ACID/BASE: ICE / COOL OTHER:				<b>SAMPLING</b> DATE TIME				BTEX TPH Chloride			
<b>Lab I.D.</b> H245808 11 12				<b>Sample I.D.</b> SW 29 SW 30				9/24 10:00 9/24 10:15				X X X X							
<b>Relinquished By:</b> [Signature] Date: 9/24 Time: 4:20 Date: 9/24 Time: 11:41				<b>Received By:</b> [Signature] Date: 9/24 Time: 4:20				<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>				<b>Bacteria (only) Sample Condition</b> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>							
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:				<b>Observed Temp. °C:</b> 54.2 <b>Corrected Temp. °C:</b> 48.2				<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>				<b>CHECKED BY:</b> (Initials)							
<b>Relinquished By:</b> [Signature]				<b>Received By:</b> [Signature]				<b>Thermometer ID #140</b> Correction Factor -0.5°C				<b>Standard</b> Rush							
<b>Relinquished By:</b> [Signature]				<b>Received By:</b> [Signature]				<b>Thermometer ID #140</b> Correction Factor -0.5°C				<b>Standard</b> Rush							
<b>Relinquished By:</b> [Signature]				<b>Received By:</b> [Signature]				<b>Thermometer ID #140</b> Correction Factor -0.5°C				<b>Standard</b> Rush							





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September 30, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/25/24 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	09/25/2024	Sampling Date:	09/25/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 60 (1.0') (H245828-01)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 62 (1.0') (H245828-02)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/26/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 53 (1.0') (H245828-03)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 66 (1.0') (H245828-04)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 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:	09/25/2024	Sampling Date:	09/25/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 64 (1.0') (H245828-05)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2024	ND	198	99.0	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	181	90.4	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 61 (1.0') (H245828-06)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 59 (1.0') (H245828-07)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 56 (1.0') (H245828-08)**

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	09/26/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/26/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/26/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/26/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 55 (1.0') (H245828-09)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	09/25/2024	Sampling Date:	09/25/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 53 (1.0') (H245828-10)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70		
Total BTX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 54 (1.0') (H245828-11)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	50.1	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 31 (H245828-12)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 32 (H245828-13)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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: 09/25/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 33 (H245828-14)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929	
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70	
Total BTX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/26/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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:	09/25/2024	Sampling Date:	09/25/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 34 (H245828-15)**

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	09/27/2024	ND	1.90	94.9	2.00	0.929		
Toluene*	<0.050	0.050	09/27/2024	ND	1.85	92.3	2.00	3.11		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	1.86	93.2	2.00	4.99		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	5.63	93.8	6.00	5.70		
Total BTEX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/26/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2024	ND	202	101	200	4.44	
DRO >C10-C28*	<10.0	10.0	09/26/2024	ND	208	104	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	09/26/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 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 cursive script, appearing to read "Celey D. Keene", written in black ink.

---

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 2 of 2

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name:								Maverick Natural Resources											
Project Name:								Encore M State 21-001											
Project Location: <small>(county, state)</small>								Lea County, NM											
Invoice to:																			
Receiving Laboratory:								Attn: Chuck Terhune Cardinal Labs											
Comments:								Include : Chris Straub chris.straub@tetratech.com    Jorge Fernandez jorge.fernandez@tetratech.com											
<div>LAB # LAB USE ONLY )</div>	SAMPLE IDENTIFICATION							YEAR: 2023		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)	
	DATE							TIME		WATER		SOIL		HCL		HNO <sub>3</sub>		ICE	
	1	BH-60 (1.0')	9/25/2024	900	X		X												
	2	BH-62(1.0')	9/25/2024	910	X		X												
	3	BH-53 (1.0')	9/25/2024	907	X		X												
	4	BH-66(1.0')	9/25/2024	910	X		X												
	5	BH-64 (1.0')	9/25/2024	915	X		X												
	6	BH-61 (1.0')	9/25/2024	920	X		X												
	7	BH-59 (1.0')	9/25/2024	925	X		X												
8	BH-56(1.0')	9/25/2024	930	X		X													
9	BH-55 (1.0')	9/25/2024	935	X		X													
10	BH-53 (1.0')	9/25/2024	940	X		X													
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Date:		Time:	REMARKS:		Standard TAT						
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Date:		Time:	Sample Temperature		LAB USE ONLY						
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Date:		Time:	Special Report Limits or TRRP Report		RUSH: Same Day 24 hr 48 hr 72 hr						
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Date:		Time:	(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____								



### 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[illegible]





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---

September 30, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 32 ( 1.0' ) (H245876-01)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 29 ( 1.0' ) (H245876-02)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEx	<0.300	0.300	09/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 35 ( 1.0' ) (H245876-03)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 16 (H245876-04)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 17 (H245876-05)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 37 (H245876-06)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/27/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 35 (H245876-07)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 15 (H245876-08)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	384	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 36 (H245876-09)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTX	<0.300	0.300	09/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	304	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 39 ( 1.0' ) (H245876-10)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEX	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 40 ( 1.0' ) (H245876-11)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEx	<0.300	0.300	09/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	240	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 41 ( 1.0' ) (H245876-12)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTX	<0.300	0.300	09/27/2024	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	208	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 47 ( 1.0' ) (H245876-13)**

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	09/27/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64		
Total BTEx	<0.300	0.300	09/27/2024	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	240	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 45 ( 1.0' ) (H245876-14)**

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	09/27/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/27/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/27/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/27/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/27/2024	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	240	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 75 ( 1.0' ) (H245876-15)**

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	09/28/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/28/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	208	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 28 ( 1.0' ) (H245876-16)**

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	09/28/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/28/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/28/2024	ND	6.59	110	6.00	4.64		
Total BTEX	<0.300	0.300	09/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 30 ( 1.0' ) (H245876-17)**

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	09/28/2024	ND	2.11	106	2.00	0.0704		
Toluene*	<0.050	0.050	09/28/2024	ND	2.10	105	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.18	109	2.00	5.00		
Total Xylenes*	<0.150	0.150	09/28/2024	ND	6.59	110	6.00	4.64		
Total BTEX	<0.300	0.300	09/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2024  
 Reported: 09/30/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 33 ( 1.0' ) (H245876-18)**

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	09/28/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/28/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	6.59	110	6.00	4.64	
Total BTEX	<0.300	0.300	09/28/2024	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	96.0	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	09/26/2024	Sampling Date:	09/26/2024
Reported:	09/30/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 36 ( 1.0' ) (H245876-19)**

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	09/28/2024	ND	2.11	106	2.00	0.0704	
Toluene*	<0.050	0.050	09/28/2024	ND	2.10	105	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/28/2024	ND	2.18	109	2.00	5.00	
Total Xylenes*	<0.150	0.150	09/28/2024	ND	6.59	110	6.00	4.64	
Total BTX	<0.300	0.300	09/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	208	16.0	09/30/2024	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	09/27/2024	ND	184	92.1	200	0.948	
DRO >C10-C28*	<10.0	10.0	09/27/2024	ND	189	94.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	09/27/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 11J  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: Encore M State 21-001

281-755-8965

Project Location: Lea County, NM

Project #: chuck.terhune@tetratech.com

Invoice to: Attn: Chuck Terhune

212C-MD-03430

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com

LAB # 1845876  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

		SAMPLING		MATRIX				PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)												
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE															
1	BH-32 (1.0')	9/26/2024	1100	X				X				X											
2	BH-29 (1.0')	9/26/2024	1105	X				X				X											
3	BH-35 (1.0')	9/26/2024	1110	X				X				X											
4	SW-16	9/26/2024	1115	X				X				X											
5	SW-17	9/26/2024	1120	X				X				X											
6	SW-37	9/26/2024	1125	X				X				X											
7	SW-35	9/26/2024	1130	X				X				X											
8	SW-15	9/26/2024	1135	X				X				X											
9	SW-36	9/26/2024	1140	X				X				X											

Inquired by: Date: Time:

Inquired by: Date: Time:

Inquired by: Date: Time:

Received by: Date: Time:

Received by: Date: Time:

Received by: Date: Time:

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

REMARKS: Standard TAT

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

LAB USE ONLY

Sample Temperature

59.0°C  
53.4°F

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: Maverick Natural Resources

Site Manager:

Project Name: Encore M State 21-001

Chuck Terhune

Project Location: Lea County, NM

281-755-8965

Project Location: (county, state)

Lea County, NM

Project #:

chuck.terhune@tetratech.com

Invoice to:

212C-MD-03430

Receiving Laboratory:

Attn: Chuck Terhune

Cardinal Labs

Sampler Signature:

Comments:

Jorge Fernandez

Include: Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com

LAB # 445876  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

		SAMPLING		MATRIX				PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE					
10	BH-39 (1.0')	9/26/2024	1000	X				X					
11	BH-40 (1.0')	9/26/2024	1005	X				X					
12	BH-41 (1.0')	9/26/2024	1010	X				X					
13	BH-47 (1.0')	9/26/2024	1015	X				X					
14	BH-45 (1.0')	9/26/2024	1020	X				X					
15	BH-75 (1.0')	9/26/2024	1025	X				X					
16	BH-28 (1.0')	9/26/2024	1030	X				X					
17	BH-30 (1.0')	9/26/2024	1035	X				X					
18	BH-33 (1.0')	9/26/2024	1040	X				X					
19	BH-36 (1.0')	9/26/2024	1045	X				X					

Uninquired by: J. Hernandez  
Date: 9-26-24  
Time: 1514

Uninquired by: J. Hernandez  
Date: 9-26-24  
Time: 1514

Received by: J. Hernandez  
Date: 9-26-24  
Time: 1515

Received by: J. Hernandez  
Date: 9-26-24  
Time: 1515

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

Sample Temperature 5.3-14  
☒ RUSH: Same Day 24 hr 48 hr 72 hr  
☐ Rush Charges Authorized  
☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:





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---

October 02, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/27/24 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	09/27/2024	Sampling Date:	09/27/2024
Reported:	10/02/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 34 ( 1.0' ) (H245904-01)**

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	09/30/2024	ND	2.23	111	2.00	7.49	
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75	
Total BTEX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 2.0' ) (H245904-02)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEx	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 2.0' ) (H245904-03)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 ( 2.0' ) (H245904-04)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 ( 2.0' ) (H245904-05)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 ( 2.0' ) (H245904-06)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (H245904-07)**

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	09/30/2024	ND	2.23	111	2.00	7.49		
Toluene*	<0.050	0.050	09/30/2024	ND	2.12	106	2.00	8.15		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.16	108	2.00	7.32		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.49	108	6.00	6.75		
Total BTEx	<0.300	0.300	09/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	99.3	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	33.9	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (H245904-08)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	694	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	276	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 58 ( 1.0' ) (H245904-09)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTEX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 57 ( 1.0' ) (H245904-10)**

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	09/30/2024	ND	2.01	100	2.00	1.68		
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 70 ( 1.0' ) (H245904-11)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTEX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 51 ( 1.0' ) (H245904-12)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTEX	<0.300	0.300	09/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 38 ( 1.0' ) (H245904-13)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 52 ( 1.0' ) (H245904-14)**

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	09/30/2024	ND	2.01	100	2.00	1.68		
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 43 ( 1.0' ) (H245904-15)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTEX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/30/2024	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	10/01/2024	ND	197	98.7	200	1.81	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	176	88.1	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 50 ( 1.0' ) (H245904-16)**

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	09/30/2024	ND	2.01	100	2.00	1.68		
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02		
Total BTEX	<0.300	0.300	09/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/30/2024	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	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 76 ( 1.0' ) (H245904-17)**

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	09/30/2024	ND	2.01	100	2.00	1.68	
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31	
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08	
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02	
Total BTEX	<0.300	0.300	09/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	09/30/2024	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	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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: 09/27/2024  
 Reported: 10/02/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 31 ( 1.0' ) (H245904-18)**

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	09/30/2024	ND	2.01	100	2.00	1.68		
Toluene*	<0.050	0.050	09/30/2024	ND	2.05	103	2.00	1.31		
Ethylbenzene*	<0.050	0.050	09/30/2024	ND	2.08	104	2.00	1.08		
Total Xylenes*	<0.150	0.150	09/30/2024	ND	6.19	103	6.00	1.02		
Total BTEX	<0.300	0.300	09/30/2024	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	<16.0	16.0	09/30/2024	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	09/30/2024	ND	202	101	200	1.09	
DRO >C10-C28*	<10.0	10.0	09/30/2024	ND	180	90.1	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	09/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager













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October 03, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 16 (2.0') (H245915-01)**

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	10/01/2024	ND	2.15	107	2.00	1.97	
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42	
Total BTX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/01/2024	ND	416	104	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 17 (2.0') (H245915-02)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/01/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 18 (2.0') (H245915-03)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	10/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 19 (2.0') (H245915-04)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	10/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	15.6	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	10.9	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 23 (2.0') (H245915-05)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEx	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 24 (2.0') (H245915-06)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.7 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 25 (2.0') (H245915-07)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	240	16.0	10/01/2024	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	10/01/2024	ND	194	96.9	200	1.41	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	199	99.7	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 53 (2.0') (H245915-08)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 54 (2.0') (H245915-09)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 63 (1.0') (H245915-10)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 6 (2.0') (H245915-11)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	384	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 7 (2.0') (H245915-12)**

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	10/01/2024	ND	2.15	107	2.00	1.97	
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	448	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 8 (2.0') (H245915-13)**

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	10/01/2024	ND	2.15	107	2.00	1.97	
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	320	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 9 (2.0') (H245915-14)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	704	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 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:	09/30/2024	Sampling Date:	09/30/2024
Reported:	10/03/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 10 (2.0') (H245915-15)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 11 (2.0') (H245915-16)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 12 (2.0') (H245915-17)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	496	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 13 (2.0') (H245915-18)**

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	10/01/2024	ND	2.15	107	2.00	1.97	
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42	
Total BTEX	<0.300	0.300	10/01/2024	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	48.0	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 14 (2.0') (H245915-19)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	992	16.0	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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: 09/30/2024  
 Reported: 10/03/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 09/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 15 (2.0') (H245915-20)**

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	10/01/2024	ND	2.15	107	2.00	1.97		
Toluene*	<0.050	0.050	10/01/2024	ND	2.23	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.23	111	2.00	2.27		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.09	118	6.00	2.42		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	10/01/2024	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	10/01/2024	ND	192	96.1	200	0.631	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	184	92.2	200	0.326	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

## Analysis Request of Chain of Custody Record

Page 2 of



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: **Encore M State 21-001** 281-755-8965  
 Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**  
 Invoice to: **Attn: Chuck Terhune** 212C-MD-03430  
 Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

Comments:

Include : Chris Straub Chris.Straub@tetratech.com Jorge Fernandez@tetratech.com

## SAMPLE IDENTIFICATION

LAB #	DATE	TIME	MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			
BH-16 (2.0')	9/30/2024	1100	X				X			
BH-17 (2.0')	9/30/2024	1105	X				X			
BH-18 (2.0')	9/30/2024	1110	X				X			
BH-19 (2.0')	9/30/2024	1115	X				X			
BH-23 (2.0')	9/30/2024	1126	X				X			
BH-24 (2.0')	9/30/2024	1125	X				X			
BH-25 (2.0')	9/30/2024	1130	X				X			
BH-53 (2.0')	9/30/2024	1135	X				X			
BH-54 (2.0')	9/30/2024	1140	X				X			
BH-63 (1.0')	9/30/2024	1145	X				X			

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

Relinquished by: **9-30-24 1302**Relinquished by: **9-30-24**Relinquished by: **9-30-24 1301**

Date: Time:

Received by:

Date: Time:

 LAB USE ONLY  
 Sample Temperature  
 40C / 100F  
 40C / 100F

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



Page 1 of 1

ANALYSIS REQUEST

Page 24 of 24

ORIGINAL COPY



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October 07, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 10/02/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	10/02/2024	Sampling Date:	10/02/2024
Reported:	10/07/2024	Sampling Type:	Solid
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 1 (H245996-01)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	10/03/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.8 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 2 (H245996-02)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	10/03/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2024	Sampling Date:	10/02/2024
Reported:	10/07/2024	Sampling Type:	Solid
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 3 (H245996-03)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	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	48.0	16.0	10/03/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 4 (H245996-04)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	32.0	16.0	10/03/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 5 (H245996-05)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	10/03/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 7 (H245996-07)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/03/2024	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	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 8 (H245996-08)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20	
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36	
Total BTEX	<0.300	0.300	10/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/03/2024	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	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2024	Sampling Date:	10/02/2024
Reported:	10/07/2024	Sampling Type:	Solid
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 9 (H245996-09)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/03/2024	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	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 10 (H245996-10)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20	
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36	
Total BTEX	<0.300	0.300	10/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/03/2024	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	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 11 (H245996-11)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/03/2024	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	10/03/2024	ND	198	99.1	200	0.306	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	176	87.8	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 12 (H245996-12)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/03/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 13 (H245996-13)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/03/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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:	10/02/2024	Sampling Date:	10/02/2024
Reported:	10/07/2024	Sampling Type:	Solid
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 14 (H245996-14)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/03/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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**Analytical Results For:**

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

Received: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 22 (2.0') (H245996-16)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 26 (2.0') (H245996-17)**

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	10/03/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/03/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/03/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/03/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/02/2024  
 Reported: 10/07/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/02/2024  
 Sampling Type: Solid  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH - 27 (2.0') (H245996-18)**

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	10/04/2024	ND	1.80	90.2	2.00	5.20		
Toluene*	<0.050	0.050	10/04/2024	ND	1.83	91.7	2.00	3.72		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	1.94	97.1	2.00	4.17		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	5.88	97.9	6.00	4.36		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	10/07/2024	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	10/03/2024	ND	182	91.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	10/03/2024	ND	181	90.4	200	0.0453	
EXT DRO >C28-C36	<10.0	10.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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



# Tetra Tech, Inc.

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

### Analysis Request of Chain of Custody Record

Page 2 of 2

Page 19 of 20

Client Name: Maverick Natural Resources		Site Manager: Chuck Terhune	
Project Name: Encore M State 21-001		281-755-8965	
Project Location: Lea County, NM		chuck.terhune@tetratech.com	
Invoice to: Lea County, NM		Project #: 212C-MD-03430	
Attn: Chuck Terhune		Sampler Signature: Jorge Fernandez	
Receiving Laboratory: Cardinal Labs		Comments: Include: Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945	
SW-10		10/2/2024 950	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1538	
Relinquished by: [Signature]		Date: 10-2-24 Time: 1537	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
Relinquished by: [Signature]		Date: [Signature] Time: [Signature]	
LAB USE ONLY		LAB # 125940	
SAMPLE IDENTIFICATION		SAMPLING	
SW-1		10/2/2024 900	
SW-2		10/2/2024 910	
SW-3		10/2/2024 915	
SW-4		10/2/2024 920	
SW-5		10/2/2024 925	
SW-6		10/2/2024 930	
SW-7		10/2/2024 935	
SW-8		10/2/2024 940	
SW-9		10/2/2024 945</	







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---

October 08, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 10/04/24 11:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	10/04/2024	Sampling Date:	10/04/2024
Reported:	10/08/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH-15 (3.0') (H246055-01)**

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	10/04/2024	ND	2.06	103	2.00	0.775	
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450	
Total BTX	<0.300	0.300	10/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-16 (3.0') (H246055-02)**

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	10/04/2024	ND	2.06	103	2.00	0.775		
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-18 (3.0') (H246055-03)**

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	10/04/2024	ND	2.06	103	2.00	0.775		
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	10/04/2024	Sampling Date:	10/04/2024
Reported:	10/08/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH-19 (3.0') (H246055-04)**

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	10/04/2024	ND	2.06	103	2.00	0.775		
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450		
Total BTEx	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 125 % 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: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-9 (3.0') (H246055-05)**

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	10/04/2024	ND	2.06	103	2.00	0.775	
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450	
Total BTX	<0.300	0.300	10/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-14 (3.0') (H246055-06)**

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	10/04/2024	ND	2.06	103	2.00	0.775		
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-78 (2.0') (H246055-07)**

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	10/04/2024	ND	2.06	103	2.00	0.775		
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295		
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450		
Total BTEX	<0.300	0.300	10/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 10/04/2024  
 Reported: 10/08/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/04/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-21 (2.0') (H246055-08)**

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	10/04/2024	ND	2.06	103	2.00	0.775	
Toluene*	<0.050	0.050	10/04/2024	ND	2.10	105	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.11	105	2.00	0.295	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	6.28	105	6.00	0.450	
Total BTEX	<0.300	0.300	10/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2024	ND	198	99.1	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	193	96.7	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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

Analysis Request of Custody Record



**Tetra Tech, Inc.**

901 W Wall St., 4th Fl. Suite 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:

Encore M State 21-001

281-755-8965

Project Location:

Lea County, NM

Project #:

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

Invoice to:

212C-MD-03430

Receiving Laboratory:

Attn: Chuck Terhune

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub [Chris.Straub@tetratech.com](mailto:Chris.Straub@tetratech.com) Jorge Fernandez [jorge.fernandez@tetratech.com](mailto:jorge.fernandez@tetratech.com)

LAB #  
LAB USE ONLY

SAMPLE IDENTIFICATION

1	2	3	4	5	6	7	8	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	# CONTAINERS	FILTERED (Y/N)
BH-15 (3.0')	BH-16 (3.0')	BH-18 (3.0')	BH-19 (3.0')	BH-9 (3.0')	BH-14 (3.0')	BH-78 (2.0')	BH-21 (2.0')	10/4/2024	900	X						
								10/4/2024	905	X						
								10/4/2024	910	X						
								10/4/2024	915	X						
								10/4/2024	920	X						
								10/4/2024	930	X						
								10/4/2024	935	X						
								10/4/2024	940	X						

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

Sample Temperature

41.1°C / 60.0°C  
95°C / 170°F

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

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY





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---

October 10, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ENCORE M STATE 21-001

Enclosed are the results of analyses for samples received by the laboratory on 10/04/24 11:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:	10/04/2024	Sampling Date:	10/03/2024
Reported:	10/10/2024	Sampling Type:	Soil
Project Name:	ENCORE M STATE 21-001	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03430	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW-6 (H246056-01)**

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	10/05/2024	ND	1.99	99.4	2.00	8.54	
Toluene*	<0.050	0.050	10/05/2024	ND	2.01	101	2.00	10.0	
Ethylbenzene*	<0.050	0.050	10/05/2024	ND	2.12	106	2.00	10.4	
Total Xylenes*	<0.150	0.150	10/05/2024	ND	6.35	106	6.00	9.88	
Total BTX	<0.300	0.300	10/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	240	16.0	10/07/2024	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	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-38 (H246056-02)**

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	10/05/2024	ND	1.99	99.4	2.00	8.54		
Toluene*	<0.050	0.050	10/05/2024	ND	2.01	101	2.00	10.0		
Ethylbenzene*	<0.050	0.050	10/05/2024	ND	2.12	106	2.00	10.4		
Total Xylenes*	<0.150	0.150	10/05/2024	ND	6.35	106	6.00	9.88		
Total BTEX	<0.300	0.300	10/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	10/07/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/08/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	16.6	50.0	10/08/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	10.5	50.0	10/08/2024	ND					

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 219 % 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: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-39 (H246056-03)**

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	10/07/2024	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49	
Total BTEX	<0.300	0.300	10/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	480	16.0	10/07/2024	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	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 119 % 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: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW-40 (H246056-04)**

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	10/07/2024	ND	2.02	101	2.00	3.32		
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16		
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56		
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49		
Total BTEX	<0.300	0.300	10/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	540	16.0	10/07/2024	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	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 10/04/2024  
 Reported: 10/10/2024  
 Project Name: ENCORE M STATE 21-001  
 Project Number: 212C-MD-03430  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 10/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH-20 (.25) (H246056-05)**

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	10/07/2024	ND	2.02	101	2.00	3.32		
Toluene*	<0.050	0.050	10/07/2024	ND	2.04	102	2.00	3.16		
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.56		
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.13	102	6.00	2.49		
Total BTEX	<0.300	0.300	10/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	590	16.0	10/07/2024	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.1	10.0	10/07/2024	ND	189	94.5	200	0.336	
DRO >C10-C28*	9.5	10.0	10/07/2024	ND	184	92.1	200	0.0505	
EXT DRO >C28-C36	39.8	10.0	10/07/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 180 % 49.1-148

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C 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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Client Name:	Maverick Natural Resources	Site Manager:	Chuck Terhune
Project Name:	Encore M State 21-001	281-755-8965 <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a>	
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03430
Invoice to:	Attn: Chuck Terhune		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernandez
Comments:	Include : Chris Straub Chris.Straub@tetrattech.com Jorge.Fernandez@tetrattech.com		

[illegible]

Relinquished by:	Date:	Time:			
<i>Sign 2 Funder V</i>		<i>1150</i>			
Relinquished by:	Date:	Time:			
		<i>10-4-24</i>	<i>Adams</i>	<i>10-4-24</i>	<i>1149</i>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Sample Temperature  
4.1°C / C.O. 60  
3.5°C / #140

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

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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

QUESTIONS

Action 451896

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451896
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321458559
Incident Name	NAPP2321458559 ENCORE M STATE 21-001 FEE @ 30-025-43444
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-43444] ENCORE M 21 FEE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ENCORE M STATE 21-001 FEE
Date Release Discovered	08/02/2023
Surface Owner	Private

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

Nature and Volume of Release	
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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 22 BBL   Recovered: 0 BBL   Lost: 22 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Stuffing box nut along the plunger on the jet pump completely snapped off causing for fluids to spew freely around the wellpad. released fluid was constrained to on-pad.

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

QUESTIONS, Page 2

Action 451896

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451896
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	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: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/15/2025
--	--



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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 451896

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	451896
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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	Between 1 and 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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	1650
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	970
GRO+DRO (EPA SW-846 Method 8015M)	694
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	09/19/2024
On what date will (or did) the final sampling or liner inspection occur	10/03/2024
On what date will (or was) the remediation complete(d)	10/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	15500
What is the estimated volume (in cubic yards) that will be remediated	805

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

QUESTIONS, Page 4

Action 451896

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451896
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
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: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/15/2025
<i>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.</i>	



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5  
  
Action 451896

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  451896
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
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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**Santa Fe, NM 87505**

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Action 451896

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	451896
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	389096
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/11/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

**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	15500
What was the total volume (cubic yards) remediated	805
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Wellpad was restored with clean caliche material, the well pad is to be reclaimed after well P&A in the future.

*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: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/15/2025
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QUESTIONS, Page 7  
  
Action 451896

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  451896
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 451896

**CONDITIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451896
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	6/23/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/23/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/23/2025
michael.buchanan	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.	6/23/2025
michael.buchanan	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.	6/23/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/23/2025