



July 26, 2024

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

**Re: Remediation Report and Closure Request
Maverick Permian, LLC
EVGSAU Britt B #027 Tank Battery Release
Unit Letter G, Section 15, Township 20 South, Range 37 East
Lea County, New Mexico
Incident ID# nAPP2316056793**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to assess and remediate a release that occurred from a subsurface flow line associated with the Britt B #027 Tank Battery. The release footprint is located near Jay Lane in Public Land Survey System (PLSS) Unit Letter G, Section 15, Township 20 South, Range 37 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.57475°, -103.237562° as shown in **Figure 1** and **Figure 2**.

BACKGROUND

The release was discovered by Maverick Operations on June 8, 2023, due to a hole in a stock tank approximately 2 inches above the bottom lip of the tank leading to a release of 81 barrels (bbls) of crude oil and 9 bbls of produced water. The release was outside of secondary containment but constrained to the facility pad and adjacent lease road. Approximately 72 bbls of oil and 8 bbls of produced water were reported as recovered by a vac-truck during the initial response. The NMOCD received the Initial C-141 on June 16, 2023, and subsequently assigned the release Incident ID nAPP2316056793. The initial C-141 Release notification form is available from the NMOCD ePermitting portal under incident ID nAPP2316056793.

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)	<50 feet bgs
Method to determine depth to groundwater	Estimation
Did this release impact groundwater or surface water	No
Distance to a continuously flowing watercourse	> 5 Miles
Distance to any lakebed, sinkhole, or playa lake	1 to 5 Miles
Distance to any occupied permanent residence, school, hospital, institution, or church	> 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	1 to 5 Miles
Distance to any other freshwater well or spring	1 to 5 miles
Distance to Incorporated municipal boundaries or a defined municipal freshwater well field	> 5 Miles
Distance to a wetland	1 to 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

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 between 50 and 75 feet below ground surface based on a depth-to-water boring approximately 0.75 miles south-southeast of the Site. As the depth to water cannot be proven within 0.5 miles of the Site, depth to water will be assumed as 50 feet or less for determining remediation criteria

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Kermit soils and Dune land, 0 to 12 percent slopes, and Pyote and Maljamar fine sands, which are both classified as sandy soils.

REGULATORY FRAMEWORK

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

Based on the unproven depth to water and distances to potential receptors, and in accordance with Table I of 19.15.29.12 NMAC, the following are the Reclamation Requirements for the Site f:

Reclamation Requirements

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

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INITIAL RESPONSE ACTIVITIES

The release occurred due to a hole in a stock tank at the Site releasing oil and produced water onto an approximately 4,700 square foot area in open pasture, as shown in **Figure 2**. According to Site records, initial response actions were taken by Maverick at the release site on March June 8, 2023. Maverick responded to the site by removing standing fluid and making an initial excavation/scrape of approximately the uppermost 6 inches of impacted material. The scraped material was transported to R360 Halfway Disposal and Landfill for disposal.

SITE ASSESSMENT

On August 24, 2023, Tetra Tech personnel mobilized to the Site to conduct soil sampling to delineate the release extent and confirm the efficacy of the reported remediation activities conducted during the initial response. A total of 12 hand auger borings were installed to achieve horizontal delineation of the release. Hand auger borings HA-01 through HA-04 were advanced within the footprint of the release and auger borings HA-5 through HA-12 were advanced along the perimeter of the reported release extent to depths ranging from 0 to 1 foot bgs to horizontally delineate the release. Hand auger refusal was encountered at approximately 1-foot bgs due to consolidated hardpan material. Soil Assessment boring locations are detailed in **Table 1** and depicted in **Figure 2**.

Results from the Site Assessment soil sampling event are summarized in **Table 2**. The laboratory reported concentrations of BTEX, TPH, and chloride as less than the Reclamation Requirements in horizontal delineation samples HA-05 through HA-12. The remaining samples collected from within the release footprint reported TPH concentrations as greater than Reclamation Requirements and HA-02 reported a chloride concentration as greater than the Reclamation Requirement.

REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on May 23, 2024, and concluded on June 6, 2024. Maverick's subcontractor, Standard Safety and Supply (Standard) used heavy equipment to excavate impacted soil from the remediation area to depths of 4 feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. Standard excavated a total of 1,032 cubic yards of contaminated soil from four excavations with an approximate total area of 6,250 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. The remediation extents and confirmation sampling locats are presented in **Figure 3**. Photographic documentation showing the open excavation is provided in **Attachment 2**.

Confirmation Sampling Notification

On May 25, 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 June 6, 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 nAPP2316056793.

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Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 43 final confirmation samples including 32 5-point composite floor samples and 11 five-point composite side wall samples from the excavated areas. The remediation excavation concluded as a 4-foot deep excavation with an approximately 6,250 square foot base and 2,400 square feet of sidewall for a total area of 8,650 square feet from which 42 confirmation samples were collected for a sampling density of approximately one sample per 201 square feet.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements or RRALs, as applicable, demonstrating clean margins.

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

Excavation Backfill

Between June 7 and 11, 2024, subsequent to the receipt of confirmation sample results, Standard completed the backfilling of the excavated areas with clean soil. Standard sourced 1,070 cubic yards of clean topsoil and caliche from Seth Boyd Pit.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with soil and caliche, and backfilled and disturbed areas have been graded back to match the pre-existing facility pad and lease road grades and then compacted to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns. All of the disturbed areas associated with this release are located on the Site facility pad or lease road. Reclamation and revegetation of the Site will be completed during reclamation of the Britt B #027 well and tank battery facility.

CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with TPH, BTEX, or chloride concentrations greater than Reclamation Requirements and/or RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean caliche, and compacted and re-graded to match pre-release conditions. Therefore, Site remediation is complete. Reclamation and revegetation at the Site will be conducted at the end of life of the Britt B #027 well and tank battery facility during well and facility reclamation. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at Chuck.Terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



Brody Saxe
Environmental Scientist
Tetra Tech, Inc.



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

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cc: Bryce Wagoner, Maverick Permian, LLC
Bureau of Land Management

LIST OF ATTACHMENTS

Figures

Figure 1 – Site Location and Topographic Map
Figure 2 – Approximate Release Extent and Site Assessment Map
Figure 3 – Remediation Extents and Confirmation Sample Locations

Tables

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

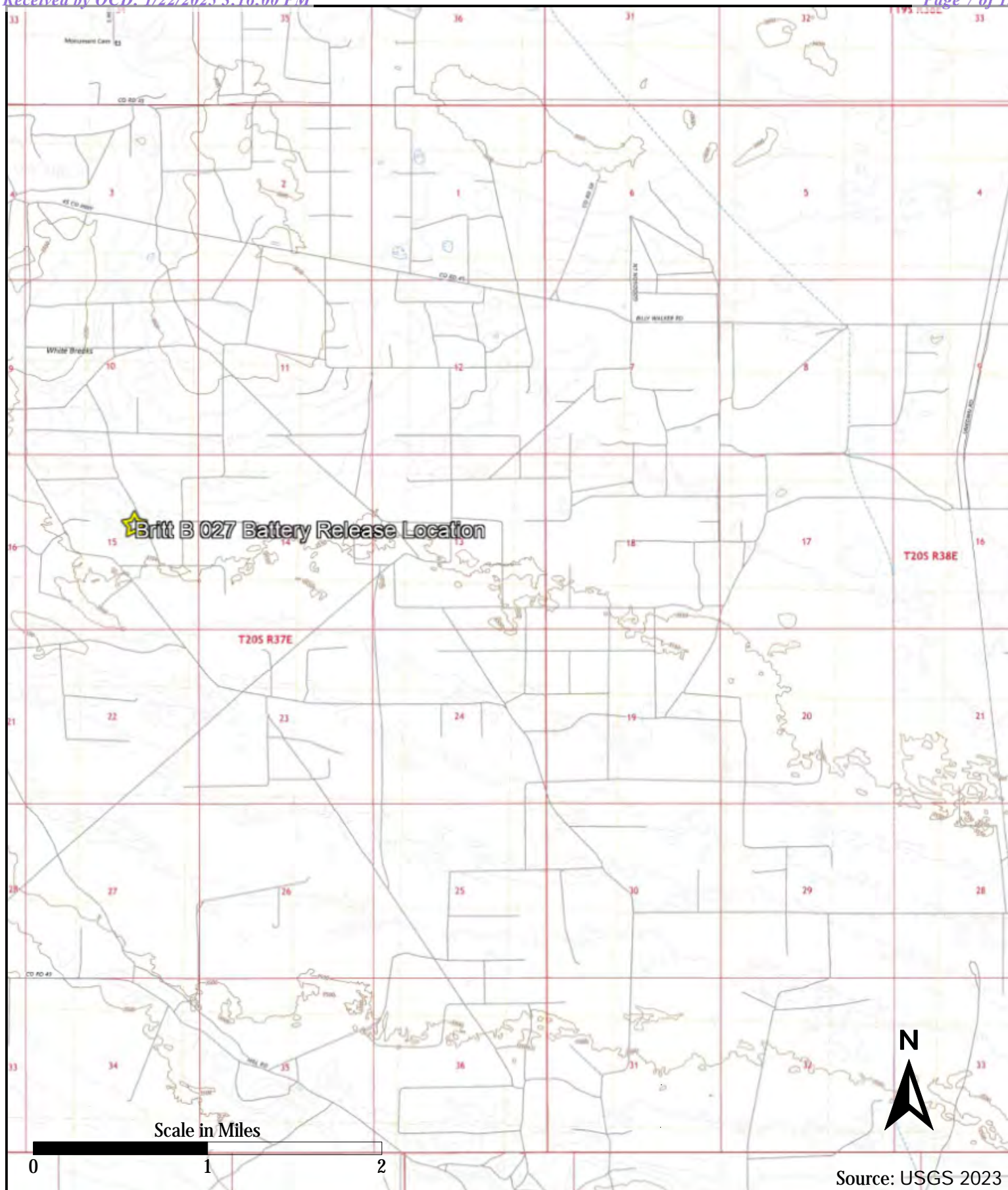
Attachments

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

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FIGURES

**TETRA TECH**

1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

MAVERICK PERMIAN, LLC
nAPP2316056793
32.57475°, -103.237562°
Lea County, New Mexico
BRITT B #027 TANK BATTERY RELEASES
SITE LOCATION AND TOPOGRAPHIC MAP

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

Figure
1

**TETRA TECH**

1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

MAVERICK PERMIAN, LLC

nAPP2316056793

32.57475°, -103.237562°

Lea County, New Mexico

BRITT B #027 TANK BATTERY RELEASES
RELEASE EXTENT AND ASSESSMENT MAP

PROJECT NO: 212C-HN-02278

DATE: JUNE 28, 2024

DESIGNED BY: CHT

Figure
2



TETRA TECH

1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

MAVERICK PERMIAN, LLC
nAPP2316056793
32.57475°, -103.237562°
Lea County, New Mexico

**BRITT B #027 TANK BATTERY RELEASES
REMEDATION EXTENTS AND CONFIRMATION SAMPLING MAP**

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

**Figure
3**

Remediation/Reclamation Report and Closure Request
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TABLES



TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT ID NAPP2316056793
MAVERICK PERMIAN, LLC
BRITT B #027 TANK BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
HA-01	8/24/2023	32.574633	-103.237085
HA-02	8/24/2023	32.574681	-103.236939
HA-03	8/24/2023	32.574725	-103.236727
HA-04	8/24/2023	32.574924	-103.236537
HA-05	8/24/2023	32.574646	-103.237200
HA-06	8/24/2023	32.574742	-103.236952
HA-07	8/24/2023	32.574791	-103.236705
HA-08	8/24/2023	32.574981	-103.236440
HA-09	8/24/2023	32.574810	-103.236586
HA-10	8/25/2023	32.574639	-103.236760
HA-11	8/25/2023	32.574566	-103.236992
HA-12	8/25/2023	32.574536	-103.237170



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT NAPP2316056793
MAVERICK PERMIAN, LLC
BRITT B #027 TANK BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
HA - 01 (0-1')	8/24/2023	0.0 - 1.0	496		<0.050		<0.050		0.087		0.677		0.765		103		11,900		3240		15243	
HA - 02 (0-1')	8/24/2023	0.0 - 1.0	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1,510		777		2,287	
HA - 03 (0-1')	8/24/2023	0.0 - 1.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		9,800		2,890		12,690	
HA - 04 (0-1')	8/24/2023	0.0 - 1.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2,190		847		3,037	
HA - 05 (0-1')	8/24/2023	0.0 - 1.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
HA - 06 (0-1')	8/24/2023	0.0 - 1.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
HA - 07 (0-1')	8/24/2023	0.0 - 1.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
HA - 08 (0-1')	8/24/2023	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		44.9		<10.0		44.9	
HA - 09 (0-1')	8/24/2023	0.0 - 1.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		17.6		<10.0		17.6	
HA - 10 (0-1')	8/25/2023	0.0 - 1.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.3		<10.0		11.3	
HA - 11 (0-1')	8/25/2023	0.0 - 1.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.6		<10.0		10.6	
HA - 12 (0-1')	8/25/2023	0.0 - 1.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

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

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015M



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NAPP2316056793
MAVERICK PERMIAN, LLC
BRITT B #027 TANK BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q		mg/kg
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
SW - 1	5/30/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	5/30/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	5/30/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	5/31/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	6/6/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	6/5/2024	0.0 - 4.0	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	6/5/2024	0.0 - 4.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	6/5/2024	0.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	5/31/2024	0.0 - 4.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10	5/30/2024	0.0 - 4.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 11	5/30/2024	0.0 - 4.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 1 (4.0')	5/30/2024	4.0 - 4.5	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 (4.0')	5/30/2024	4.0 - 4.5	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 (4.0')	5/30/2024	4.0 - 4.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 (4.0')	5/30/2024	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 (4.0')	5/30/2024	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 (4.0')	5/30/2024	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 7 (4.0')	5/30/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 8 (4.0')	5/30/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 9 (4.0')	5/30/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 10 (4.0')	5/30/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 11 (4.0')	5/30/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 12 (4.0')	5/31/2024	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 13 (4.0')	5/31/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 14 (4.0')	5/31/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 15 (4.0')	5/31/2024	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 17 (4.0')	5/31/2024	4.0 - 4.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 16 (4.0')	6/3/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 18 (4.0')	6/3/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 19 (4.0')	6/5/2024	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		36.8		<10.0		36.8	
BH - 20 (4.0')	6/3/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 21 (4.0')	6/3/2024	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 21 (4.0')	6/3/2024	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 22 (4.0')	6/6/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.2		<10.0		10.2	
BH - 23 (4.0')	6/5/2024	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		43.5		<10.0		43.5	
BH - 24 (4.0')	6/6/2024	4.0 - 4.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		54.9		17.9		72.8	
BH - 25 (4.0')	6/6/2024	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		57.8		22.3		80.1	



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NAPP2316056793
MAVERICK PERMIAN, LLC
BRITT B #027 TANK BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
BH - 26 (4.0')	6/5/2024	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.8		<10.0		25.8	
BH - 27 (4.0')	6/5/2024	4.0 - 4.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		76.0		14.1		90.1	
BH - 28 (4.0')	6/5/2024	4.0 - 4.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		30.0		<10.0		30.0	
BH - 29 (4.0')	6/6/2024	4.0 - 4.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.0		<10.0		25.0	
BH - 30 (4.0')	6/5/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 31 (4.0')	6/6/2024	4.0 - 4.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.3		13.0		39.3	
BH - 32 (4.0')	6/5/2024	4.0 - 4.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

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

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

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

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

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
Britt B #027 Tank Battery Release
Incident ID: nAPP2316056793

July 26, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 665435

Northing (Y): 3605515

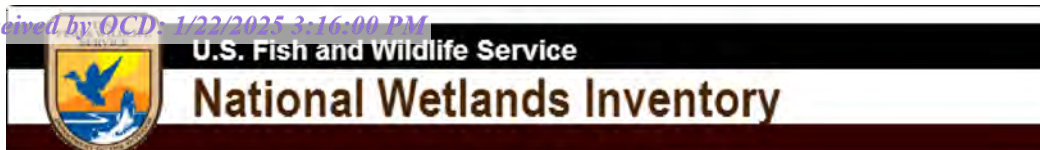
Radius: 800

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.

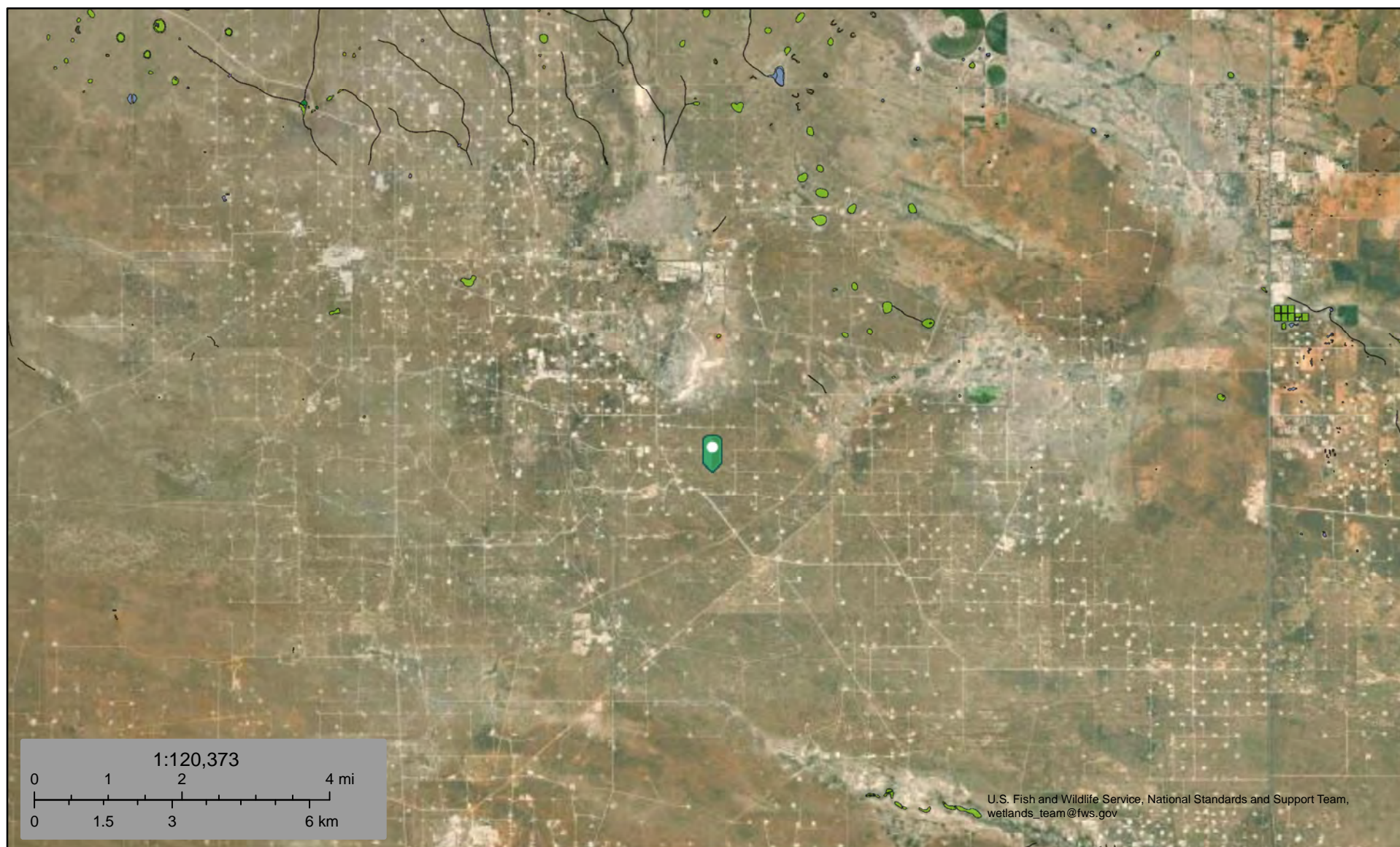
7/22/24 1:46 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER








Britt B #027 Tank Battery Release





July 22, 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.

National Flood Hazard Layer FIRMette



103°14'34"W 32°34'44"N



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

1:6,000

103°13'56"W 32°34'14"N

Released to Imaging: 1/23/2025 10:02:25 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/22/2024 at 3:58 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.



Search

Map Unit Legend

Lea County, New Mexico (NM025)			
Lea County, New Mexico (NM025)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	7.4	81.9%
PU	Pyote and Maljamar fine sands	1.6	18.1%
Totals for Area of Interest		9.0	100.0%

Soil Map

Scale (not to scale)



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

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil surveys that comprise your AOI were mapped at 1:20,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map 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.

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
Britt B #027 Tank Battery Release
Incident ID: nAPP2316056793

July 26, 2024

ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION



☉ 79°E (T) LAT: 32.574509 LON: -103.237220 ±4m ▲ 1089m



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:32:48 MDT

SW

W

NW

N

210

240

270

300

330

0

3

☼ 295°NW (T) LAT: 32.574560 LON: -103.237000 ±4m ▲ 1088m



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:33:18 MDT



☀ 118°SE (T) LAT: 32.574677 LON: -103.237190 ±4m ▲ 1086m

Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:33:52 MDT



☀ 118°SE (T) **LAT: 32.574671 LON: -103.237155 ±4m ▲ 1087m**



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:34:02 MDT

SE

S

SW

W

120

150

180

210

240

270

300

☉ 207°SW (T) **LAT: 32.574743 LON: -103.237025 ±4m ▲ 1086m**



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:34:23 MDT



☀ 19°N (T) **LAT: 32.574594 LON: -103.236985 ±4m ▲ 1087m**



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:34:41 MDT



☉ 269°W (T) LAT: 32.574685 LON: -103.236825 ±4m ▲ 1087m



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:35:00 MDT



☉ 36°NE (T) **LAT: 32.574656 LON: -103.236916 ±4m ▲ 1087m**



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:35:10 MDT

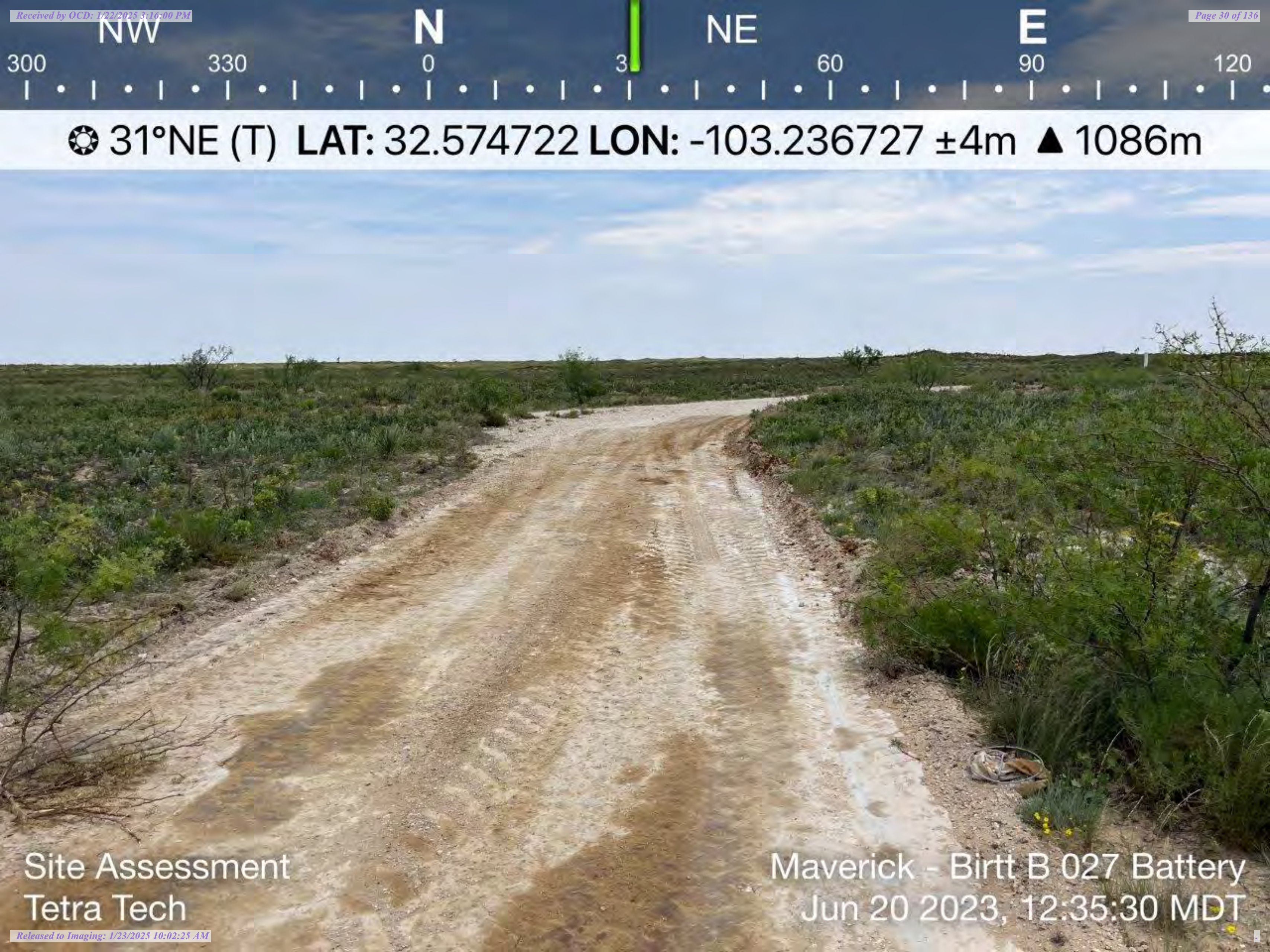


☉ 41°NE (T) LAT: 32.574677 LON: -103.236824 ±4m ▲ 1086m



Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:35:22 MDT



☉ 31°NE (T) LAT: 32.574722 LON: -103.236727 ±4m ▲ 1086m

Site Assessment
Tetra Tech

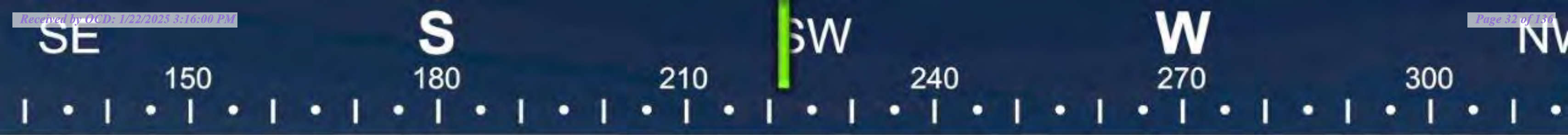
Maverick - Birtt B 027 Battery
Jun 20 2023, 12:35:30 MDT



☉ 231°SW (T) **LAT: 32.575000 LON: -103.236459 ±3m ▲ 1079m**

Site Assessment
Tetra Tech

Maverick - Birtt B 027 Battery
Jun 20 2023, 12:36:00 MDT



☉ 222°SW (T) LAT: 32.575001 LON: -103.236476 ±4m ▲ 1085m



Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:41:33 MDT



SE

S

SW

W

NW

150

180

210

240

270

300

☉ 222°SW (T) LAT: 32.575000 LON: -103.236472 ±4m ▲ 1085m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:41:38 MDT

SE

S

SW

W

120

150

180

210

240

270

300

☀ 204°SW (T) LAT: 32.575001 LON: -103.236478 ±4m ▲ 1085m



Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:41:46 MDT



SE

S

SW

W

120

150

180

210

240

270

300

☀ 204°SW (T) LAT: 32.574979 LON: -103.236515 ±4m ▲ 1085m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:41:56 MDT



☉ 215°SW (T) LAT: 32.574847 LON: -103.236644 ±4m ▲ 1086m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:42:17 MDT



☼ 250°W (T) LAT: 32.574722 LON: -103.236762 ±4m ▲ 1085m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:42:42 MDT



S

SW

W

NW

180

210

240

270

300

330

☉ 250°W (T) LAT: 32.574726 LON: -103.236747 ±4m ▲ 1085m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:42:50 MDT



☉ 215°SW (T) LAT: 32.574761 LON: -103.236810 ±4m ▲ 1085m

Site Remediation
Tetra Tech

Maverick-Britt B #27
May 30 2024, 10:43:12 MDT



☉ 297°NW (T) LAT: 32.574740 LON: -103.236854 ±4m ▲ 1085m



Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 03 2024, 11:33:10 MDT

SE

S

SW

W

120

150

180

210

240

270

☀ 202°S (T) LAT: 32.574737 LON: -103.236910 ±4m ▲ 1085m



Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 03 2024, 11:33:18 MDT

N

NE

E

SE

330

0

30

60

90

120

150

☀ 56°NE (T) LAT: 32.574647 LON: -103.236992 ±4m ▲ 1086m



Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 03 2024, 11:33:33 MDT



S

SW

W

NW

150

180

210

240

270

300

330

☉ 242°SW (T) LAT: 32.574736 LON: -103.236963 ±4m ▲ 1087m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 05 2024, 10:48:12 MDT

E

SE

S

SW

90

120

150

180

210

240

270

☉ 176°S (T) LAT: 32.574705 LON: -103.237068 ±4m ▲ 1087m



Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 05 2024, 10:48:33 MDT



☉ 255°W (T) LAT: 32.574715 LON: -103.237134 ±4m ▲ 1089m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 10 2024, 11:26:13 MDT



☉ 276°W (T) LAT: 32.574638 LON: -103.237309 ±4m ▲ 1088m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 12 2024, 09:42:12 MDT



☉ 353°N (T) LAT: 32.574751 LON: -103.237153 ±4m ▲ 1087m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 12 2024, 09:42:28 MDT



☉ 277°W (T) LAT: 32.574668 LON: -103.237061 ±4m ▲ 1088m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 12 2024, 09:42:41 MDT



Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 12 2024, 09:43:17 MDT



☀ 47°NE (T) LAT: 32.574958 LON: -103.236504 ±4m ▲ 1087m

Site Remediation
Tetra Tech

Maverick- Britt B #027
Jun 12 2024, 09:44:02 MDT

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
Britt B #027 Tank Battery Release
Incident ID: nAPP2316056793

July 26, 2024

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA



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

August 31, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027

Enclosed are the results of analyses for samples received by the laboratory on 08/25/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 01 (0-1') (H234645-01)

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	08/29/2023	ND	1.88	93.8	2.00	0.907	
Toluene*	<0.050	0.050	08/29/2023	ND	1.87	93.4	2.00	7.27	
Ethylbenzene*	0.087	0.050	08/29/2023	ND	1.94	97.1	2.00	1.70	
Total Xylenes*	0.677	0.150	08/29/2023	ND	5.78	96.3	6.00	2.31	
Total BTX	0.765	0.300	08/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	496	16.0	08/29/2023	ND	416	104	400	3.77	

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*	103	100	08/30/2023	ND	173	86.6	200	0.487		
DRO >C10-C28*	11900	100	08/30/2023	ND	175	87.5	200	1.06		
EXT DRO >C28-C36	3240	100	08/30/2023	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 412 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149 TASK 200
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 08/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 02 (0-1') (H234645-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2023	ND	1.88	93.8	2.00	0.907		
Toluene*	<0.050	0.050	08/29/2023	ND	1.87	93.4	2.00	7.27		
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	1.94	97.1	2.00	1.70		
Total Xylenes*	<0.150	0.150	08/29/2023	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	08/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	880	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	1510	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	777	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 164 % 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:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 03 (0-1') (H234645-03)

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	08/29/2023	ND	1.88	93.8	2.00	0.907		
Toluene*	<0.050	0.050	08/29/2023	ND	1.87	93.4	2.00	7.27		
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	1.94	97.1	2.00	1.70		
Total Xylenes*	<0.150	0.150	08/29/2023	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	08/29/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	9800	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	2890	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 338 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 04 (0-1') (H234645-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21	
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77	
Total BTEX	<0.300	0.300	08/30/2023	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	08/29/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	2190	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	847	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149 TASK 200
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 08/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 05 (0-1') (H234645-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21	
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77	
Total BTEX	<0.300	0.300	08/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 06 (0-1') (H234645-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21		
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00		
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84		
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77		
Total BTEX	<0.300	0.300	08/30/2023	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	320	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 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: 08/25/2023
 Reported: 08/31/2023
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149 TASK 200
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 08/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HA - 07 (0-1') (H234645-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21		
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00		
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84		
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77		
Total BTEX	<0.300	0.300	08/30/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 08 (0-1') (H234645-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21	
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77	
Total BTEX	<0.300	0.300	08/30/2023	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	32.0	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	44.9	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 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:	08/25/2023	Sampling Date:	08/24/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 09 (0-1') (H234645-09)

BTEx 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21		
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00		
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84		
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77		
Total BTEX	<0.300	0.300	08/30/2023	ND						

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

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487		
DRO >C10-C28*	17.6	10.0	08/29/2023	ND	175	87.5	200	1.06		
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND						

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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:	08/25/2023	Sampling Date:	08/25/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 10 (0-1') (H234645-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21	
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77	
Total BTX	<0.300	0.300	08/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	11.3	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:	08/25/2023	Sampling Date:	08/25/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 11 (0-1') (H234645-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21	
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77	
Total BTEX	<0.300	0.300	08/30/2023	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	16.0	16.0	08/29/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	10.6	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/25/2023	Sampling Date:	08/25/2023
Reported:	08/31/2023	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149 TASK 200	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: HA - 12 (0-1') (H234645-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.6	2.00	5.21		
Toluene*	<0.050	0.050	08/30/2023	ND	1.79	89.4	2.00	5.00		
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.86	92.9	2.00	5.84		
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.54	92.4	6.00	6.77		
Total BTEX	<0.300	0.300	08/30/2023	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	<16.0	16.0	08/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	173	86.6	200	0.487	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	175	87.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 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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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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Britt B #C27

281-755-8965

Project Location:

Lea County, NM

Project #:

chuck.terhune@tetratech.com

Invoice to:

Attn: Bryce Waggoner

212C-MD-03149 Task 200

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

LAB #

LAB USE ONLY

SAMPLE IDENTIFICATION

SAMPLING
YEAR: 2023
DATE
TIME

MATRIX
WATER
SOIL
HCL
HNO₃
ICE
PRESERVATIVE METHOD

CONTAINERS
FILTERED (Y/N)

1 HA-01 (0-1')

8/24/2023

X

X

2 HA-02 (0-1')

8/24/2023

X

X

3 HA-03 (0-1')

8/24/2023

X

X

4 HA-04 (0-1')

8/24/2023

X

X

5 HA-05 (0-1')

8/25/2023

X

X

6 HA-06 (0-1')

8/25/2023

X

X

7 HA-07 (0-1')

8/24/2023

X

X

8 HA-08 (0-1')

8/24/2023

X

X

9 HA-09 (0-1')

8/24/2023

X

X

10 HA-10 (0-1')

8/25/2023

X

X

Relinquished by:

Date: Time:

8/25/23 2:09pm

1410

X

Relinquished by:

Date: Time:

8/25/23 2:09pm

1410

X

Relinquished by:

Date: Time:

8/25/23 2:09pm

1410

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

REMARKS:

Standard TAT

LAB USE ONLY

Sample Temperature

3.3°C

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

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

[illegible]



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

June 03, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2024	Sampling Date:	05/30/2024
Reported:	06/03/2024	Sampling Type:	Soil
Project Name:	BRITT B #027	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 1 (4.0') (H243029-01)

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	05/31/2024	ND	1.80	90.1	2.00	1.93	
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58	
Total BTX	<0.300	0.300	05/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 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	304	16.0	06/03/2024	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 2 (4.0') (H243029-02)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	06/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (4.0') (H243029-03)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	176	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (4.0') (H243029-04)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 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	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (4.0') (H243029-05)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEx	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 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	112	16.0	06/03/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (4.0') (H243029-06)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	190	95.0	200	0.861	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	208	104	200	7.53	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 7 (4.0') (H243029-07)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 8 (4.0') (H243029-08)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 9 (4.0') (H243029-09)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 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	80.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (4.0') (H243029-10)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 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	80.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 11 (4.0') (H243029-11)

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	05/31/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	05/31/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/31/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	05/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H243029-12)

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	06/02/2024	ND	1.80	90.1	2.00	1.93	
Toluene*	<0.050	0.050	06/02/2024	ND	1.78	88.8	2.00	1.40	
Ethylbenzene*	<0.050	0.050	06/02/2024	ND	1.80	89.9	2.00	1.16	
Total Xylenes*	<0.150	0.150	06/02/2024	ND	5.18	86.3	6.00	1.58	
Total BTEX	<0.300	0.300	06/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 (H243029-13)

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	06/02/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	06/02/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	06/02/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	06/02/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	06/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 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	16.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H243029-14)

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	06/02/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	06/02/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	06/02/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	06/02/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	06/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 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	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 (H243029-15)

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	06/02/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	06/02/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	06/02/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	06/02/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	06/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 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	80.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/30/2024
 Reported: 06/03/2024
 Project Name: BRITT B #027
 Project Number: 212C - MD - 03149
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 05/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 (H243029-16)

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	06/02/2024	ND	1.80	90.1	2.00	1.93		
Toluene*	<0.050	0.050	06/02/2024	ND	1.78	88.8	2.00	1.40		
Ethylbenzene*	<0.050	0.050	06/02/2024	ND	1.80	89.9	2.00	1.16		
Total Xylenes*	<0.150	0.150	06/02/2024	ND	5.18	86.3	6.00	1.58		
Total BTEX	<0.300	0.300	06/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/03/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	204	102	200	1.84	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	211	106	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: Britt B # 027 Tank Battery

281-755-8965

chuck.terhune@tetratech.com

Project Location: Lea County, NM

Project #:

212C-MD-03149

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com

LAB #

LAB USE ONLY

SAMPLE IDENTIFICATION

	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)
1	BH-1 (4.0')	5/30/2024	X	X		X			
2	BH-2 (4.0')	5/30/2024	X	X		X			
3	BH-3 (4.0')	5/30/2024	X	X		X			
4	BH-4 (4.0')	5/30/2024	X	X		X			
5	BH-5 (4.0')	5/30/2024	X	X		X			
6	BH-6 (4.0')	5/30/2024	X	X		X			
7	BH-7 (4.0')	5/30/2024	X	X		X			
8	BH-8 (4.0')	5/30/2024	X	X		X			
9	BH-9 (4.0')	5/30/2024	X	X		X			
10	BH-10 (4.0')	5/30/2024	X	X		X			

Relinquished by: Date: Time: 1404

Relinquished by: Date: Time: 1404

Relinquished by: Date: Time: 1404

Received by:

Received by:

Date: Time: 5:30-24 1405

Date: Time: 5:30-24 1405

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

LAB USE ONLY

Sample Temperature

1.4°C

#140

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

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Britt B # 027 Tank Battery

281-755-8965

Project Location:

Lea County, NM

Project #:

chuck.terhune@tetratech.com
 212C-MD-03149

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com

 LAB #
 LAB USE ONLY
 SAMPLE IDENTIFICATION

YEAR- 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			

1	BH-11 (4.0')	5/30/2024		X			X			
12	SW-1	5/30/2024		X			X			
13	SW-2	5/30/2024		X			X			
14	SW-3	5/30/2024		X			X			
15	SW-10	5/30/2024		X			X			
16	SW-11	5/30/2024		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 / 824	
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: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

REMARKS: Standard TAT

LAB USE ONLY

Sample Temperature

- ☒ 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



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

June 04, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 13:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (4.0') (H243053-01)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	64.0	16.0	06/04/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (4.0') (H243053-02)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (4.0') (H243053-03)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (4.0') (H243053-04)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEx	<0.300	0.300	06/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (4.0') (H243053-05)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	128	16.0	06/04/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 (H243053-06)

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	06/03/2024	ND	1.75	87.7	2.00	1.51	
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401	
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103	
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261	
Total BTEX	<0.300	0.300	06/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/04/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 (H243053-07)

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	06/03/2024	ND	1.75	87.7	2.00	1.51		
Toluene*	<0.050	0.050	06/03/2024	ND	1.73	86.6	2.00	0.401		
Ethylbenzene*	<0.050	0.050	06/03/2024	ND	1.66	83.2	2.00	0.103		
Total Xylenes*	<0.150	0.150	06/03/2024	ND	5.15	85.8	6.00	0.261		
Total BTEX	<0.300	0.300	06/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	112	16.0	06/04/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2024	ND	231	115	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/03/2024	ND	239	120	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	06/03/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: Britt B # 027 Tank Battery

281-755-8965

chuck.terhune@tetratech.com

Project Location: Lea County, NM

Project #:

212C-MD-03149

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com

SAMPLE IDENTIFICATION

LAB # 1043053

LAB USE ONLY

		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
1	BH-12 (4.0')	5/31/2024		X			X		
2	BH-13 (4.0')	5/31/2024		X			X		
3	BH-14 (4.0')	5/31/2024		X			X		
4	BH-15 (4.0')	5/31/2024		X			X		
5	BH-17 (4.0')	5/31/2024		X			X		
6	SW-4	5/31/2024		X			X		
7	SW-9	5/31/2024		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: [Signature] Date: 5-31-24 Time: 5:13 PM

Relinquished by: [Signature] Date: 5-31-24 Time: 5:13 PM

Relinquished by: [Signature] Date: 5-31-24 Time: 5:13 PM

Received by: [Signature]

Received by: [Signature]

Date: 5-31-24 Time: 1:18 PM

Date: 5-31-24 Time: 1:18 PM

REMARKS: Standard TAT

LAB USE ONLY

Sample Temperature

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 #

ORIGINAL COPY



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

June 05, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 14:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/03/2024	Sampling Date:	06/03/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: BH-16 (4.0') (H243114-01)

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	06/04/2024	ND	2.02	101	2.00	2.60	
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92	
Total BTEX	<0.300	0.300	06/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 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	48.0	16.0	06/04/2024	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	06/04/2024	ND	213	106	200	0.136	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	206	103	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/03/2024	Sampling Date:	06/03/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: BH-18 (4.0') (H243114-02)

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	06/04/2024	ND	2.02	101	2.00	2.60		
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67		
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72		
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92		
Total BTEX	<0.300	0.300	06/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 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	06/04/2024	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	06/04/2024	ND	213	106	200	0.136	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	206	103	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/03/2024	Sampling Date:	06/03/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: BH-20 (4.0') (H243114-03)

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	06/04/2024	ND	2.02	101	2.00	2.60		
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67		
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72		
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92		
Total BTEX	<0.300	0.300	06/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	06/04/2024	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	06/04/2024	ND	213	106	200	0.136	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	206	103	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/03/2024	Sampling Date:	06/03/2024
Reported:	06/05/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: BH-21 (4.0') (H243114-04)

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	06/04/2024	ND	2.02	101	2.00	2.60		
Toluene*	<0.050	0.050	06/04/2024	ND	1.98	99.2	2.00	3.67		
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.02	101	2.00	4.72		
Total Xylenes*	<0.150	0.150	06/04/2024	ND	5.85	97.5	6.00	4.92		
Total BTEX	<0.300	0.300	06/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 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	06/04/2024	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	06/04/2024	ND	197	98.6	200	4.41	
DRO >C10-C28*	<10.0	10.0	06/04/2024	ND	184	92.1	200	0.634	
EXT DRO >C28-C36	<10.0	10.0	06/04/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For 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 "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Request of Chain of Custody Record



Tetra Tech, Inc.

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

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

Project Name: **Britt B # 027 Tank Battery** 281-755-8965

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

Invoice to: **Project #:** 212C-MD-03149

Receiving Laboratory: **Attn: Chuck Terhune**

Comments: **Cardinal Labs** Sampler Signature: **Jorge Fernandez**

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

LAB # **H24314**
(LAB USE ONLY)

SAMPLE IDENTIFICATION

		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED
	BH-16 (4.0')	6/3/2024		X			X			
	BH-19 (4.0') BH-18 (4.0') JLFV	6/3/2024		X			X			
	BH-20 (4.0')	6/3/2024		X			X			
	BH-21 (4.0')	6/3/2024		X			X			
									</	

Relinquished by: *Jorge Fernandez* Date: **6-3-24** Time: **1358**

Relinquished by: *Jorge Fernandez* Date: **6-3-24** Time: **1452**

Relinquished by: *Jorge Fernandez* Date: **6-3-24** Time: **1452**

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

LAB USE ONLY
REMARKS: **Standard TAT**

Sample Temperature: **0.4C**

☒ **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



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

June 07, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 14:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 19 (4.0') (H243197-01)

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	06/06/2024	ND	1.98	98.9	2.00	2.68	
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70	
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99	
Total BTEX	<0.300	0.300	06/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	112	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	36.8	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 23 (4.0') (H243197-02)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 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	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	43.5	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 27 (4.0') (H243197-03)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	224	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	76.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	14.1	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 28 (4.0') (H243197-04)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	30.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 30 (4.0') (H243197-05)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	80.0	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (4.0') (H243197-06)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 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	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 26 (4.0') (H243197-07)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 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	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	25.8	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 8 (H243197-08)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 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	96.0	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H243197-09)

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	06/06/2024	ND	1.98	98.9	2.00	2.68	
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70	
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99	
Total BTEX	<0.300	0.300	06/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	160	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 (H243197-10)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	112	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/05/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 32 (4.0') (H243197-11)

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	06/06/2024	ND	1.98	98.9	2.00	2.68		
Toluene*	<0.050	0.050	06/06/2024	ND	1.96	98.1	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	2.01	101	2.00	4.70		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.86	97.7	6.00	4.99		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/07/2024	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	06/06/2024	ND	227	114	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	225	112	200	0.851	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Mike Snyder For 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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

June 07, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #027 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/06/24 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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, appearing to read "Mike Snyder", is written in a cursive style.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 5 (H243226-01)

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	06/06/2024	ND	1.82	90.9	2.00	0.711		
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559		
Total BTX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/06/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 22 (4.0') (H243226-02)

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	06/06/2024	ND	1.82	90.9	2.00	0.711		
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559		
Total BTEX	<0.300	0.300	06/06/2024	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	48.0	16.0	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	10.2	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 24 (4.0') (H243226-03)

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	06/06/2024	ND	1.82	90.9	2.00	0.711		
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	54.9	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	17.9	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 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:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 25 (4.0') (H243226-04)

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	06/06/2024	ND	1.82	90.9	2.00	0.711	
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517	
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537	
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559	
Total BTEX	<0.300	0.300	06/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	57.8	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	22.3	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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:	06/06/2024	Sampling Date:	06/06/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	BRITT B #027 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03149	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: BH - 29 (4.0') (H243226-05)

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	06/06/2024	ND	1.82	90.9	2.00	0.711	
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517	
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537	
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559	
Total BTEX	<0.300	0.300	06/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	25.0	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 06/06/2024
 Reported: 06/07/2024
 Project Name: BRITT B #027 TANK BATTERY
 Project Number: 212C - MD - 03149
 Project Location: LEA COUNTY, NM

Sampling Date: 06/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 31 (4.0') (H243226-06)

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	06/06/2024	ND	1.82	90.9	2.00	0.711		
Toluene*	<0.050	0.050	06/06/2024	ND	1.84	91.9	2.00	0.517		
Ethylbenzene*	<0.050	0.050	06/06/2024	ND	1.75	87.3	2.00	0.537		
Total Xylenes*	<0.150	0.150	06/06/2024	ND	5.47	91.2	6.00	0.559		
Total BTEX	<0.300	0.300	06/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	224	16.0	06/07/2024	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	06/07/2024	ND	199	99.3	200	0.778	
DRO >C10-C28*	26.3	10.0	06/07/2024	ND	189	94.4	200	2.67	
EXT DRO >C28-C36	13.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name:

Maverick

Site Manager:

Chuck Terhune

Project Name:

Birt B No.27 Tank Battery

(281) 755-8965

Project Location:

(county, state) Lea County, NM

chuck.terhune@tetratech.com

Invoice to:

chuck.terhune@tetratech.com - chris.straub@tetratech.com

212C-MD-

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Miguel A. Flores

Comments:

SAMPLE IDENTIFICATION

LAB #

LAB USE ONLY

SAMPLING

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO₃

ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO)

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.)

Inquired by:

Miguel A Flores

Date: 6/6/24 Time: 12:14

Received by:

Miguel A Flores

Date: 6/6/24 Time: 12:55

Inquired by:

Date: Time:

Received by:

Date: Time:

Date: Time:

LAB USE ONLY

REMARKS: Standard

Sample Temperature

57.9°C

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

QUESTIONS

Action 423760

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2316056793
Incident Name	NAPP2316056793 BRITT B-27 BATTERY @ 30-025-26941
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-26941] BRITT B #027

Location of Release Source

Please answer all the questions in this group.

Site Name	BRITT B-27 BATTERY
Date Release Discovered	06/08/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Tank (Any) Crude Oil Released: 81 BBL Recovered: 72 BBL Lost: 9 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Tank (Any) Produced Water Released: 9 BBL Recovered: 8 BBL Lost: 1 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)	Release resulted from a hole in a stock tank located approximately 2 inches above the bottom lip of the tank. The release was outside of secondary containment but constrained to the facility pad and the adjacent lease road.

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QUESTIONS, Page 2

Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 01/22/2025
--	--

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Oil Conservation Division
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QUESTIONS, Page 3

Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	890
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15243
GRO+DRO (EPA SW-846 Method 8015M)	1203
BTEX (EPA SW-846 Method 8021B or 8260B)	0.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	05/23/2024
On what date will (or did) the final sampling or liner inspection occur	06/06/2024
On what date will (or was) the remediation complete(d)	06/11/2024
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	6250
What is the estimated volume (in cubic yards) that will be remediated	1032
<i>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.</i>	
<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>	

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QUESTIONS, Page 4

Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: chuck.terhune@tetrattech.com Date: 01/22/2025
<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

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Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	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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QUESTIONS, Page 6

Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	350061
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/07/2024
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	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6250
What was the total volume (cubic yards) remediated	1032
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)	All remediation areas on pad or lease road, and were remediated to the most stringent Table I standards. The site will be reclaimed subsequent to Well P&A and tank battery deconstruction at the end of service life.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 01/22/2025

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Action 423760

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	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 423760

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 423760
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/23/2025
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. 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.	1/23/2025
crystal.walker	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.	1/23/2025
crystal.walker	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.	1/23/2025