



February 1, 2024

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

**Re: Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B Well #24 Flowline Release
Unit Letter M, Section 11, Township 80 South, Range 37 East
Lea County, New Mexico
Incident ID# nPAC0603034879**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contacted by ConocoPhillips (COP) to assess a historical release that occurred from a flowline associate with the Britt B Well #24 (API No. 30-025-21223). The release footprint is located in the Public Land Survey System (PLSS) Unit Letter L, Section 11, Township 20 South, Range 37 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.585491°, -103.229862°, as shown in **Figure 1** and **Figure 2**.

Maverick Permian LLC (Maverick) subsequently acquired this site from COP in June 2022, and performed the remediation work on this site in accordance with the remediation work plan approved by NMOCD on April 24, 2023.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (**Attachment 1**), the release was discovered on January 12, 2006. According to the C-141, the release occurred as a result of possible internal corrosion on a 2-inch steel flowline from the Britt B Well #24. The release consisted of 38 barrels (bbls) of oil and produced water affecting an area of 3,282 square feet (SF). During immediate response actions, a vacuum truck recovered 20 bbls of free liquid. The initial C-141 report form was submitted to the New Mexico Oil Conservation District (NMOCD) on January 23, 2006. The release was subsequently assigned the Remediation Permit (RP) number 1RP-1530 and the Incident ID nPAC0603034879. The 1RP-1530 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. The release extent is shown in **Figure 3** and the initial C-141 Release Notification form is included in **Attachment 1**.

SITE CHARACTERIZATION

Receptors

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

Tetra Tech, Inc.

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Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kermit Soils and Dune Land, 0 to 12 Percent Slopes, which is classified as a sandy soil with a published soil profile of fine sand from the surface to 5 feet bgs, and Simona Fine Sandy Loam, 0 to 3 Percent Slopes, which is classified as a sandy soil with a published soil profile of fine sandy loam from surface to 2 feet bgs, gravely fine sandy loam from 2 to 4 feet bgs, and cemented material from 4 to 5 feet bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 2**.

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters of the release Site. Furthermore, there are no water wells within 1,600 meters (approximately 1 mile) of the Site. However, there are seven (7) water wells within 3,000 meters (approximately 2 miles) of the Site. The average depth to groundwater is 53 feet (ft) below ground surface (bgs). The site characterization data is included in **Attachment 2**.

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 xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

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

Closure Criteria for Soils Impacted by a Release

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

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

Reclamation Requirements

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

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INITIAL RESPONSE ACTIVITIES

The release occurred due to a hole in a flowline. The release flowed into open pastureland adjacent to the flowline right of way. Approximately an 8-inch-deep, 20-foot (ft) by 20-ft area was impacted by the release. The leak resulted in a release of 45 barrels (bbls) of oil, of which 40 bbls were recovered.

SITE ASSESSMENT SUMMARY

On January 13, 2006, Environmental Plus, Inc (EPI) on behalf of ConocoPhillips conducted an initial site assessment to photograph and document the extent of the release. Based on the findings of the initial site assessment, the release flow path consisted of approximately 3,280 SF of pasture and an overspray area of 545 SF. No analytical samples were collected during the initial site assessment, and the depth of impact was not determined. The findings of the initial site assessment and a recommended soil sampling plan were documented in a Delineation Proposal and submitted to the NMOCD on June 26, 2007. The submitted deliverable provided a release extent and recommended five borings and soil sampling to determine the vertical extent of contamination. There is no documented evidence that the NMOCD approved the submitted proposal.

Tetra Tech conducted a visual Site inspection on behalf of COP in June 2020 to evaluate current Site conditions. Sparse vegetative cover, some soil discoloration, and occasional asphaltic staining was observed inside the footprint during this Site inspection. Photographic documentation of the release area during the June 2020 Site inspection was provided in the Release Characterization and Remediation Work Plan submitted to NMOCD in February 2021.

On behalf of COP, Tetra Tech personnel were on Site in October and November 2020 to conduct soil sampling to achieve vertical and horizontal delineation of the release. A total of three (3) borings (BH-1 through BH-3) were installed using an air rotary drilling rig to depths of 30 ft bgs within the release extent to achieve vertical delineation of the release extent. A total of six (6) hand auger borings (AH-4 through AH-9) were advanced along the perimeter of the release to depths of 2 ft bgs to achieve horizontal delineation of the release extent. Soils at the Site consist of brown silty sands from the surface down to 30 ft bgs. **Figure 3** depicts the release extent and the 2020 soil boring locations. Soils were field screened for salinity using an ExTech EC400 ExStik to determine sampling intervals. A total of thirty-nine (39) samples were collected from the nine (9) borings (BH-1 through BH-3, and AH-4 through AH-9) and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. The laboratory analytical report and chain-of-custody documentation were provided in the Release Characterization and Remediation Work Plan submitted to NMOCD in February 2021. The analytical results are provided in **Table 1** of this report.

REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on December 7, 2023, and concluded on January 5, 2024. Maverick's subcontractor, McNabb used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 4 bgs as shown in **Figure 4**. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 1,153 cubic yards of contaminated soil from an approximately 10,145-square-foot area and transported the soil to R360 for offsite disposal.

Tetra Tech notified NMOCD of confirmation sampling on December 14, 2019 via submission of a C-141N application online to the OCD Permitting portal. The notification is included in the OCD online files under this incident number.

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Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 45 confirmation samples on an approximate 400 square foot basis, including 22 floor samples and 23 side wall samples from the excavated areas. Confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX (8021B), chloride (SM4500 CL-B), and TPH (TPH 8015M). Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements for samples collected from depths above 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported constituent concentrations as less than RRALs, and clean margins were demonstrated. Confirmation sampling locations and excavation extents are shown in **Figure 4**.

Between January 5 and January 8, 2024, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with clean soil. Confirmation sampling laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 2** and **Table 3** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 3**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

The backfilled areas of impacted pastureland have been graded with topsoil and seeded with New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture in accordance with the Site soil profile detailed above in the Site Characterization Section, to aid in vegetation growth to complete reclamation. The seed mixture applied to the remediation Site is provided in **Attachment 5**.

CONCLUSION

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

Sincerely,



Chris Straub
Project Manager
Tetra Tech, Inc.



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

cc: Bryce Wagoner, Maverick Permian, LLC

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LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Remediation Excavation Extent & Confirmation Sampling

Tables

- Table 1 – Summary of Analytical Results – Historical Soil Assessments
- Table 2 – Summary of Shallow Soil Analytical Results – Confirmation Sampling
- Table 3 – Summary of Deep Soil Analytical Results – Confirmation Sampling

Attachments

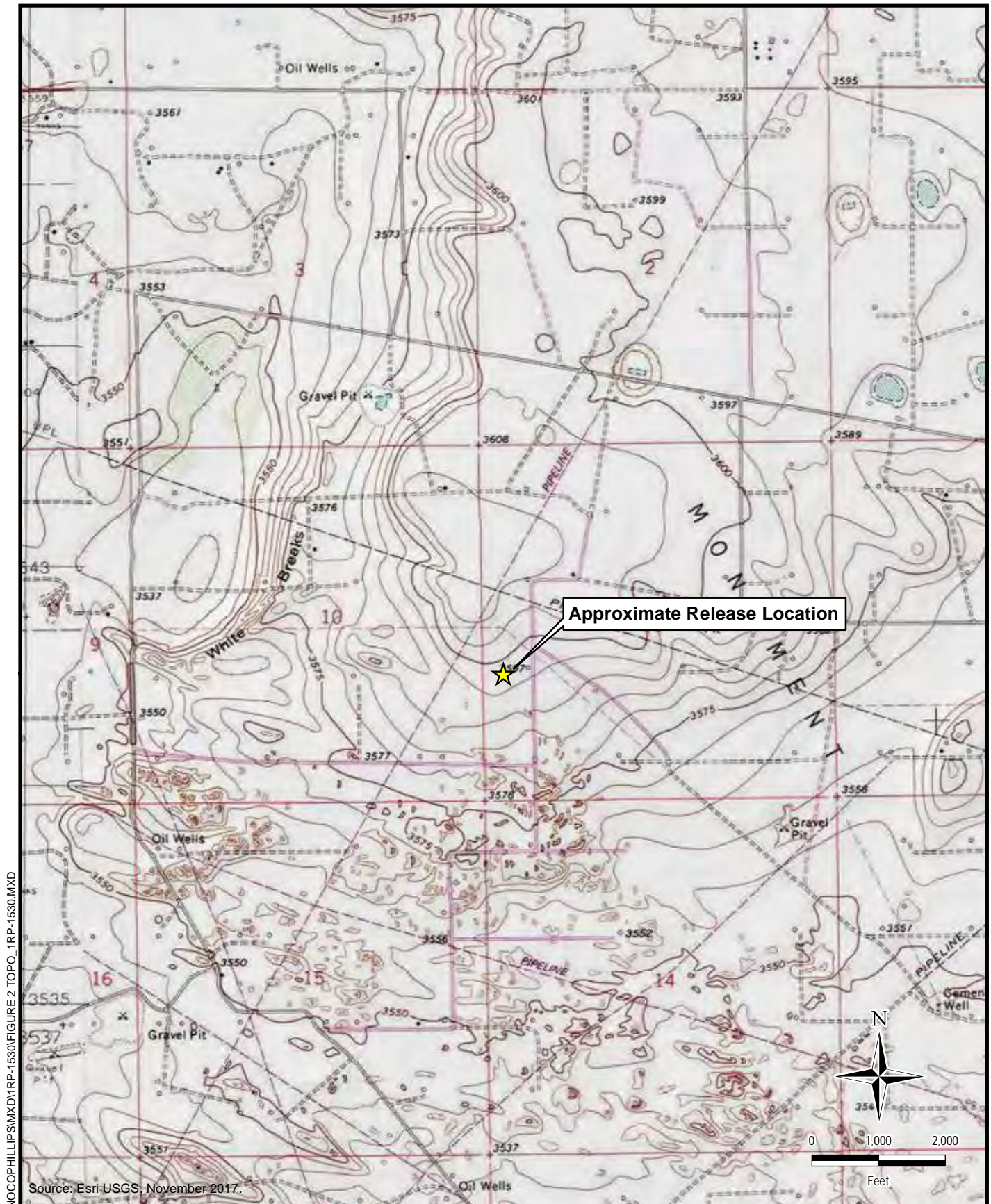
- Attachment 1 – C-141 Forms
- Attachment 2 – Site Characterization Data
- Attachment 3 – Laboratory Analytical Data
- Attachment 4 – Photographic Documentation
- Attachment 5 – Seed Mixture Details

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FIGURES





DOCUMENT PATH: D:\CONCOPHILLIPSMXD\1RP-1530\FIGURE 2 TOPO-1RP-1530.MXD

**TETRA TECH**

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MAVERICK PERMIAN LLC

1RP-1530

(32.585491°, -103.229862°)

LEA COUNTY, NEW MEXICO

BRITT B WELL #24 FLOWLINE RELEASE
TOPOGRAPHIC MAP

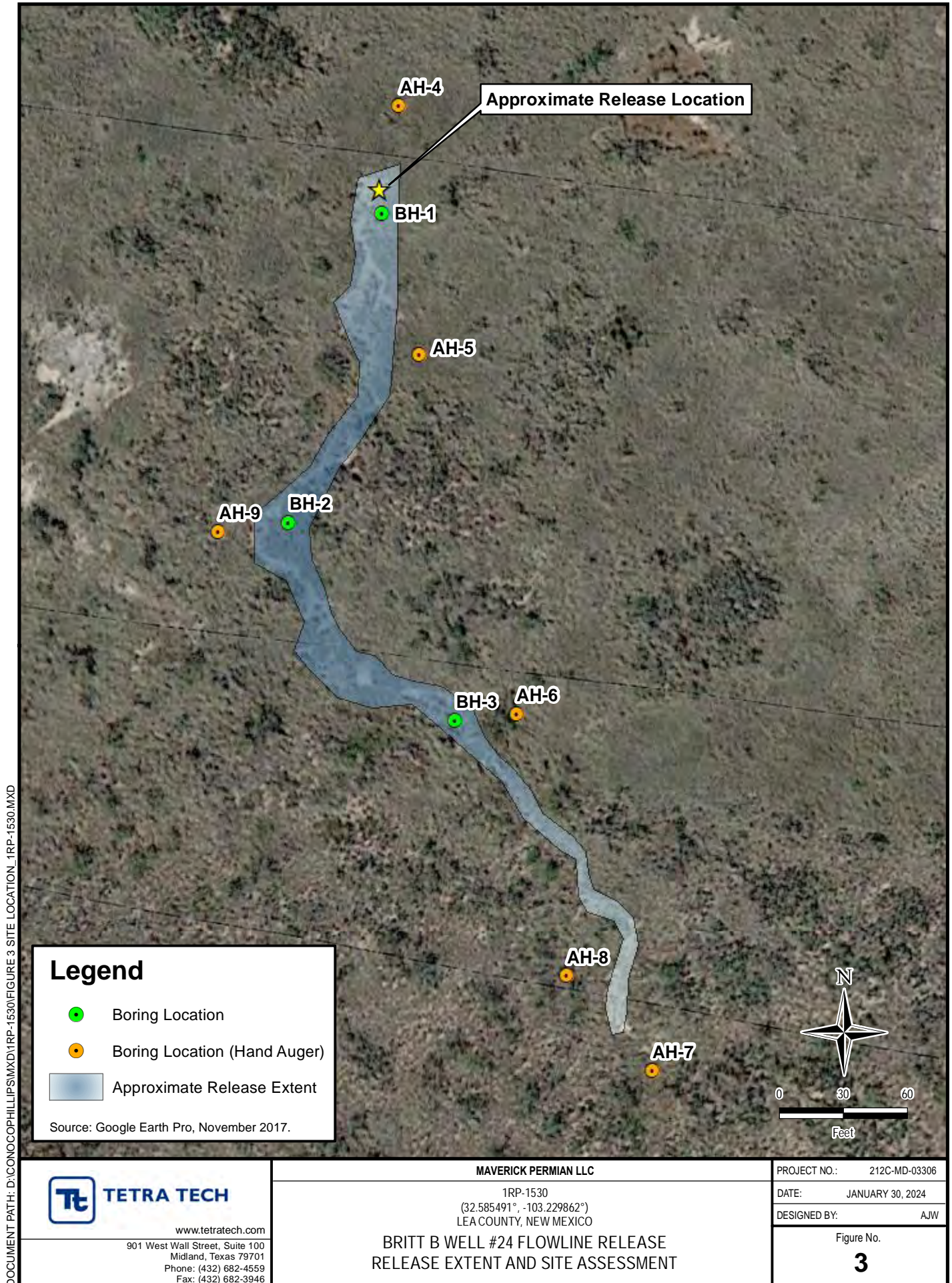
PROJECT NO.: 212C-MD-03306

DATE: JANUARY 30, 2024

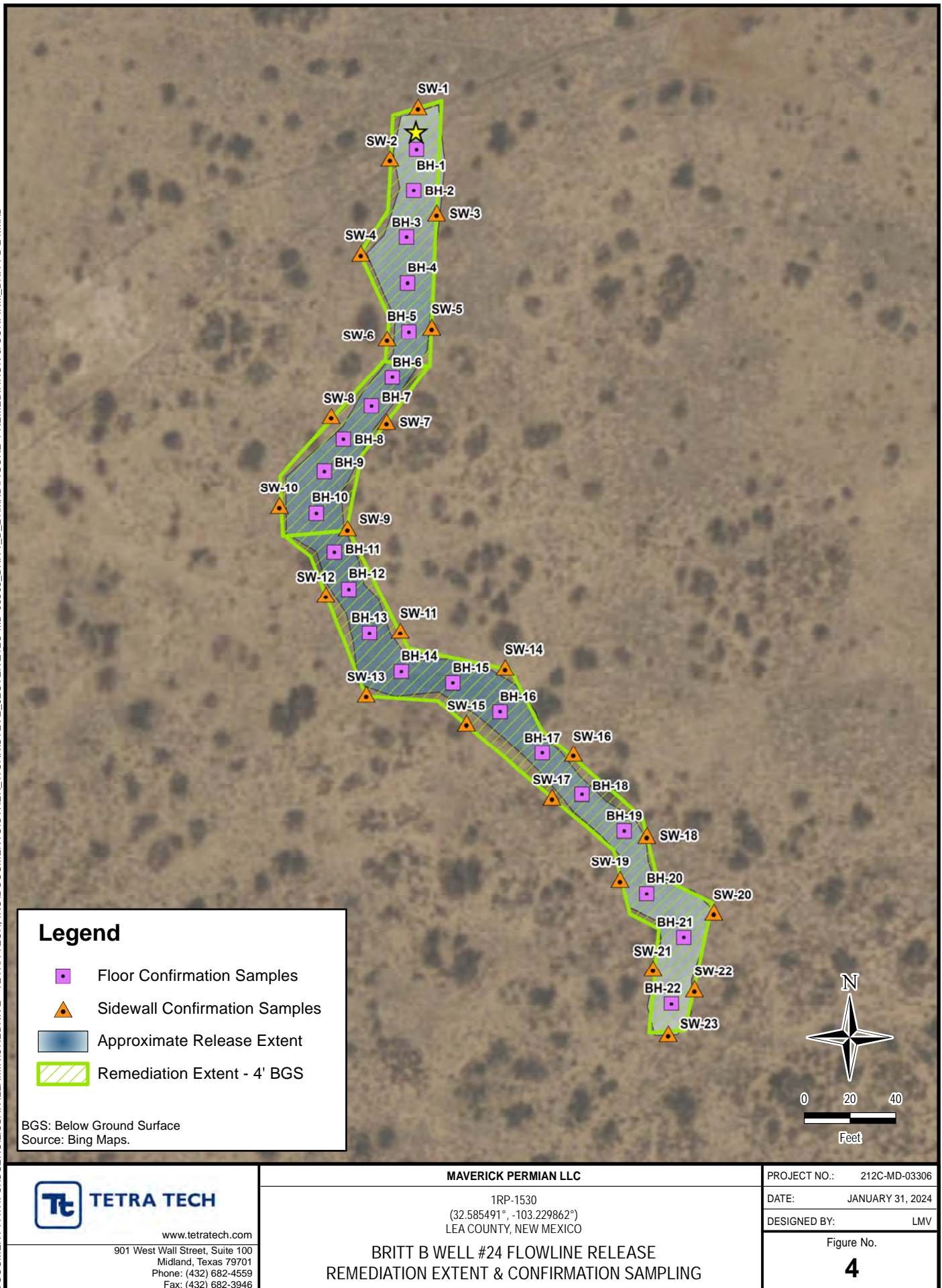
DESIGNED BY: AJW

Figure No.

2



DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\OTHER_WORK\STEVE_JESTER\212C-MD-03306_BRITT_B_24MXD\FIGURE 4 REMEDIATION & CONFIRM BRITT B 24.MXD



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TABLES



TABLE 1
SUMMARY OF ANALYTICAL RESULTS
HISTORICAL SOIL ASSESSMENTS - INCIDENT nPAC0603034879
MAVERICK PERMIAN, LLC
BRITT B WELL #24 FLOWLINE 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	
		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	(GRO+DRO+EXT DRO)	mg/kg
Reclamation Requirements (19.15.29 NMAC)			600		10								50									100
BH-1	10/28/2020	0-1	47.2		< 0.00108		< 0.00539		< 0.00269		< 0.007		-		0.0239	B J	43.9		106			150
		2-3	68.5		< 0.00108		0.02		0.00199	J	0.00707		0.0291		13.7	B	653		513			1,180
		4-5	36.6		< 0.00108		< 0.00541		< 0.00271		< 0.00703		-		0.0315	B J	5.42		7.54			13
		6-7	25		< 0.00107		< 0.00536		< 0.00268		< 0.00696		-		0.0275	B J	1.94	J	1.94	J		3.91
		9-10	28.8		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-		0.025	B J	< 4.09		2.41	J		2.44
		14-15	< 20.8		< 0.00108		< 0.00541		< 0.0027		< 0.00703		-		0.0279	B J	< 4.16		1.87	J		1.9
		19-20	< 25.7		< 0.00157		< 0.00785		< 0.00392		< 0.0102		-		0.0337	B J	14.6		71.2			85.8
		24-25	18.2	J	< 0.00143		< 0.00716		< 0.00358		< 0.00931		-		0.0299	B J	< 4.86		1.06	J		1.09
29-30	19.9	J	< 0.00131		< 0.00654		< 0.00327		< 0.0085		-		0.029	B J	< 4.61		< 4.61			0.029		
BH-2	10/28/2020	0-1	428		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-		0.0275	B J	2,100		3,180			5,280
		2-3	305		< 0.0011		< 0.00549		< 0.00275		< 0.00714		-		0.0298	B J	1,300		2,250			3,550
		4-5	213		< 0.00109		< 0.00547		0.00082	J	0.000894	J	0.001714		0.155	B	284		219			503
		6-7	63.6		< 0.00111		< 0.00553		< 0.00276		< 0.00719		-		< 0.105		61.3		98.5			160
		9-10	13.8	J	< 0.00112		< 0.00559		< 0.00279		< 0.00726		-		< 0.106		2.78	J	4.54			7.32
		14-15	< 20.7		< 0.00107		< 0.00537		< 0.00268		< 0.00698		-		< 0.104		< 4.15		0.299	J		0.299
		19-20	211		< 0.00141		< 0.00706		< 0.00353		< 0.00918		-		< 0.121		3.09	J	4.34	J		7.43
		24-25	85.6		< 0.0013		< 0.00649		< 0.00324		< 0.00843		-		< 0.115		3.32	J	4.35	J		7.67
29-30	77.4		< 0.00123		< 0.00617		< 0.00309		< 0.00802		-		< 0.112		1.89	J	2.49	J		4.38		
BH-3	10/28/2020	0-1	23.8		< 0.00111		< 0.00554		< 0.00277		< 0.0072		-		< 0.105		19.8		44.9			64.7
		2-3	34.1		< 0.00108		< 0.0054		< 0.0027		< 0.00701		-		< 0.104		38.5		80.9			119
		4-5	35.3		< 0.00112		< 0.00559		< 0.00279		< 0.00726		-		< 0.106		8.69		16.7			25.4
		6-7	384		< 0.00112		< 0.00561		< 0.00281		< 0.0073		-		< 0.106		5.6		8.23			13.8
		9-10	559		< 0.00111		< 0.00554		< 0.00277		< 0.00721		-		< 0.105		4.8		8.28			13.1
		14-15	23.6		< 0.00105		< 0.00527		< 0.00264		< 0.00686		-		< 0.103		17.3		37.5			54.8
		19-20	27.8		< 0.00134		< 0.0067		< 0.00335		< 0.00872		-		< 0.117		2.11	J	3.25	J		5.36
		24-25	13.7	J	< 0.00141		< 0.00704		< 0.00352		< 0.00915		-		< 0.120		< 4.81		0.477	J		0.477
29-30	27.5		< 0.0013		< 0.00651		< 0.00325		< 0.00846		-		< 0.115		< 4.60		1.47	J		1.47		
AH-4	11/4/2020	0-1	< 20.2		< 0.00102		< 0.00509		< 0.00254		0.00122	J	0.00122		< 0.101		6.24		20			26.2
		1-2	< 20.2		< 0.00102		< 0.00508		< 0.00254		0.00109	J	0.00109		< 0.101		6.66		34			40.7
AH-5	11/4/2020	0-1	< 20.1		< 0.00101		< 0.00505		< 0.00253		< 0.00657		-		< 0.101		3.7	J	20			23.7
		1-2	< 20.1		< 0.00101		< 0.00504		< 0.00252		< 0.00656		-		0.0347	J	7.85		42.8			50.7
AH-6	11/4/2020	0-1	< 20.1		< 0.00101		< 0.00504		< 0.00252		0.000898	J	0.000898		< 0.100		4.19		18.7			22.9
		1-2	< 20.1		< 0.00101		< 0.00504		< 0.00252		< 0.00656		-		< 0.100		3.62	J	11.7			15.3
AH-7	11/4/2020	0-1	< 20.3		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		< 0.101		3.75	J	21.7			25.5
		1-2	< 20.4		< 0.00104		< 0.00518		< 0.00259		< 0.00673		-		< 0.102		3.86	J	18.6			22.5
AH-8	11/4/2020	0-1	< 20.1		< 0.00101		< 0.00505		< 0.00253		< 0.00657		-		< 0.101		2.71	J	15.6			18.3
		1-2	< 20.1		< 0.00101		< 0.00507		< 0.00253		< 0.00659		-		< 0.101		3.85	J	19.9			23.8
AH-9	11/4/2020	0-1	< 20.3		< 0.00103		< 0.00514		< 0.00257		0.000991	J	0.000991		< 0.101		3.75	J	16.7			20.5
		1-2	< 20.2		< 0.00102		< 0.00512		< 0.00256		0.000921	J	0.000921		0.036	B J	19.5		21.9			41.4

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

(-): Not Analyzed

GRO: Gasoline Range Organics

DRO: Diesel 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).



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HISTORICAL SOIL ASSESSMENTS - INCIDENT nPAC0603034879
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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			
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)			
													mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		

ND: Non-detect ORO: Oil Range Organics
B: The same analyte is found in the associated blank
J: The reported value is an estimate



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT nPAC0603034879
MAVERICK PERMIAN, LLC
Britt B Well #024 FLOWLINE 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)	
		C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		mg/kg
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
SW - 1	12/18/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		163		78		241	
SW - 1	12/21/2023	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	12/18/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		88		39		127	
SW - 2	12/21/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	12/18/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		80		36		116	
SW - 3	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		175		65		240	
SW - 4	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		178		71		249	
SW - 5	12/21/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		88		31		119	
SW - 6	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		96		37		133	
SW - 7	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	12/21/2023	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	12/21/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10	12/21/2023	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 11	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		136		52		188	
SW - 11	12/21/2023	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 13	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		49		12		61	
SW - 14	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		287		133		420	
SW - 14	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 15	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		95		34		129	
SW - 15	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		148		58		206	
SW - 16	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 17	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		55		<10.0		55	
SW - 18	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		105		38		143	
SW - 18	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 19	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		123		48		171	
SW - 19	12/21/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 20	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		45		<10.0		45	
SW - 21	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		124		44		168	
SW - 21	12/21/2023	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT nPAC0603034879
MAVERICK PERMIAN, LLC
Britt B Well #024 FLOWLINE 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)	
												C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆						
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10							50								100		
SW - 22	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		83		12		95	
SW - 23	12/18/2023	0.0 - 4.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		104		37		141	
SW - 23	12/21/2023	0.0 - 4.0	32		<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).
Highlighted Rows indicate additional lateral excavation and resampling



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
DEEP CONFIRMATION SAMPLING - INCIDENT PAC0603034879
MAVERICK PERMIAN, LLC
Britt B Well #024 FLOWLINE 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		TPH		Total TPH	
		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	Q	mg/kg	Q
RRALs (Table I 19.15.29.12 NMAC)			10,000		10								50									1,000		2,500
BH - 1 (4.0')	12/15/2023	4.0 - 4.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		79		<10.0			79		79
BH - 2 (4.0')	12/15/2023	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		127		24			151		151
BH - 3 (4.0')	12/15/2023	4.0 - 4.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		524		197			721		721
BH - 4 (4.0')	12/15/2023	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1,440		352			1,792		1,792
BH - 4 (6.0')	1/2/2023	6.0 - 6.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		286		73			359		359
BH - 5 (4.0')	12/15/2023	4.0 - 4.5	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		645		152			797		797
BH - 6 (4.0')	12/18/2023	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		74		28			103		103
BH - 7 (4.0')	12/18/2023	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		86		31			117		117
BH - 8 (4.0')	12/18/2023	4.0 - 4.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15		<10.0			15		15
BH 9 (4')	12/21/2023	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		108		23			131		131
BH 10 (4')	12/21/2023	4.0 - 4.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		391		78			469		469
BH 11 (4')	12/21/2023	4.0 - 4.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		408		122			530		530
BH 12 (4')	12/21/2023	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		164		23			187		187
BH 13 (4')	12/21/2023	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		299		55			354		354
BH - 14 (4.0')	12/18/2023	4.0 - 4.5	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		233		55			288		288
BH - 15 (4.0')	12/15/2023	4.0 - 4.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		37		<10.0			37		37
BH - 16 (4.0')	12/15/2023	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		183		73			256		256
BH - 17 (4.0')	12/15/2023	4.0 - 4.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		44		<10.0			44		44
BH - 18 (4.0')	12/15/2023	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13		<10.0			13		13
BH - 19 (4.0')	12/15/2023	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14		<10.0			14		14
BH - 20 (4.0')	12/15/2023	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		44		<10.0			44		44
BH - 21 (4.0')	12/15/2023	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12		<10.0			12		12
BH - 22 (4.0')	12/15/2023	4.0 - 4.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40		22			62		62

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015M

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.**Areas where samples were collected were then overexcavated to achieve clean margins.**

Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B #024 Flowline Release
Incident ID: nPAC0603034879

February 1, 2024

ATTACHMENT 1 – C-141 FORMS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company ConocoPhillips Company	Contact John Abney
Address 4001 Penbrook Street Odessa, TX 79762	Telephone No. (505)391-3128
Facility Name Britt B Well #24	Facility Type Oil Well

Surface Owner BLM	Mineral Owner BLM	Lease No. 031621B
-------------------	-------------------	-------------------

API # 30 02S 212230000

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	11	20S	37E	1980	South	660	West	Lea

Latitude 32 35.123N Longitude 103 13.763W

NATURE OF RELEASE

Type of Release Oil and Produced water	Volume of Release 38 bbls	Volume Recovered 20 bbls
Source of Release 2" steel flow line	Date and Hour of Occurrence 1/12/06	Date and Hour of Discovery 1/13/06 11am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? John Abney	Date and Hour 1/13/2006 2:15 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA


Describe Cause of Problem and Remedial Action Taken.*

A 2" steel flow line leaked possibly due to internal corrosion, a section of the pipe will be cut to determine the cause. The well was shut in until the joint of pipe could be replaced. The line was repaired, and tested and the line was walked out to locate any other signs of potential leaks, none were found.

Describe Area Affected and Cleanup Action Taken.*

The affected area is 3282 sq.ft. The area will be delineated to determine the appropriate clean up procedures.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: John Abney	Approved by District Supervisor:	
Title: SHEaR Specialist	Approval Date:	Expiration Date:
E-mail Address: john.h.abney@conocophillips.com	Conditions of Approval:	
Date: 01/23/2006 Phone: (505)391-3128	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

ConocoPhillips - 217817
Incident # n PAC0603034879
Released to Imaging: 3/6/2024 9:31:03 AM
Amplification - PAC0603050368

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <div><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody</div>

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/24/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Jocelyn Harimon Date: 04/24/2023☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: _____ Date: 04/24/2023

Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B #024 Flowline Release
Incident ID: nPAC0603034879

February 1, 2024

ATTACHMENT 2 – SITE CHARACTERIZATION DATA

KARST POTENTIAL MAP

1RP-1530

Legend

-  1RP-1530
-  High
-  Low
-  Medium

Hobbs

 1RP-1530

Eunice

Google Earth

© 2020 Google

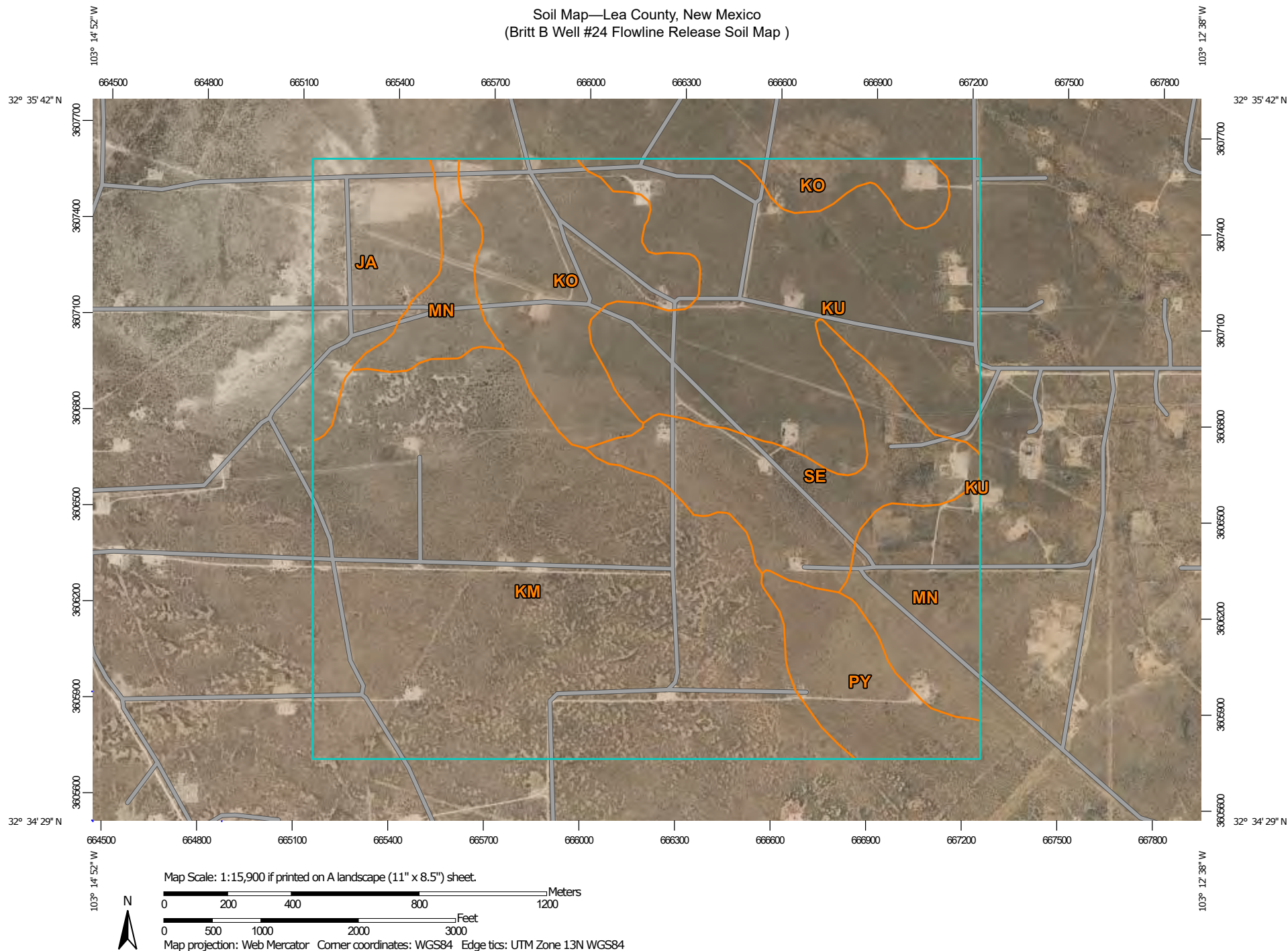
Image Landsat / Copernicus

Released to Imaging: 3/6/2024 9:31:08 AM



10 mi

Soil Map—Lea County, New Mexico
(Britt B Well #24 Flowline Release Soil Map)



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

12/21/2023
Page 1 of 3

Soil Map—Lea County, New Mexico
(Britt B Well #24 Flowline Release Soil Map)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

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

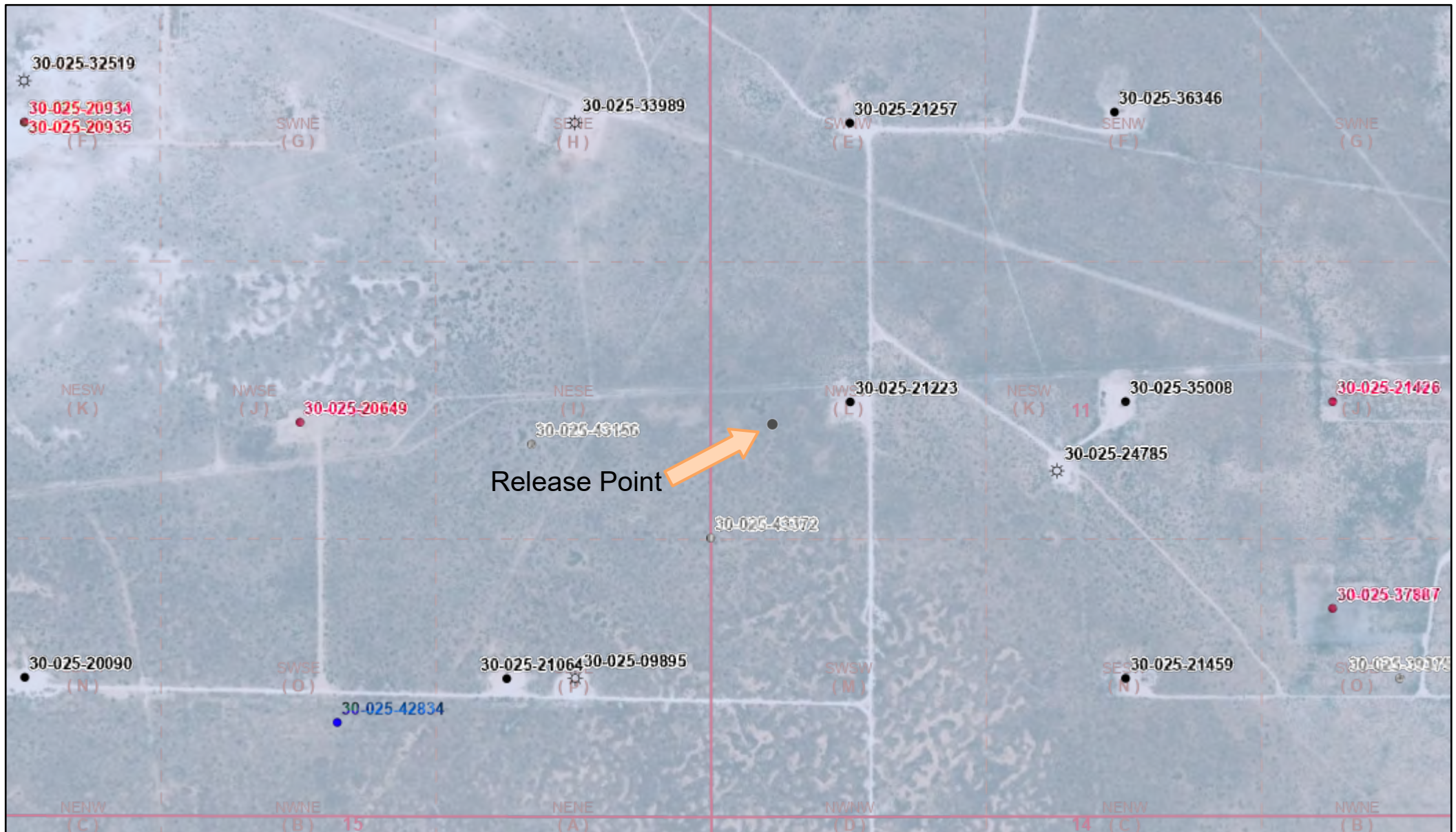
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Map—Lea County, New Mexico

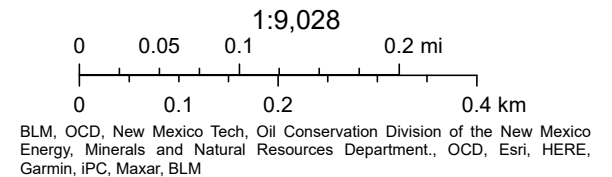
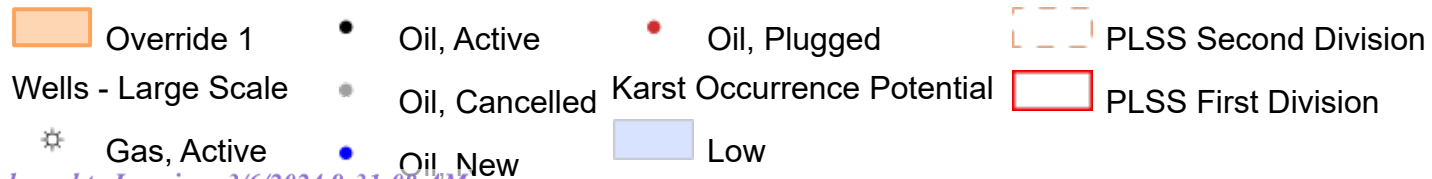
Britt B Well #24 Flowline Release
Soil Map

Map Unit Legend

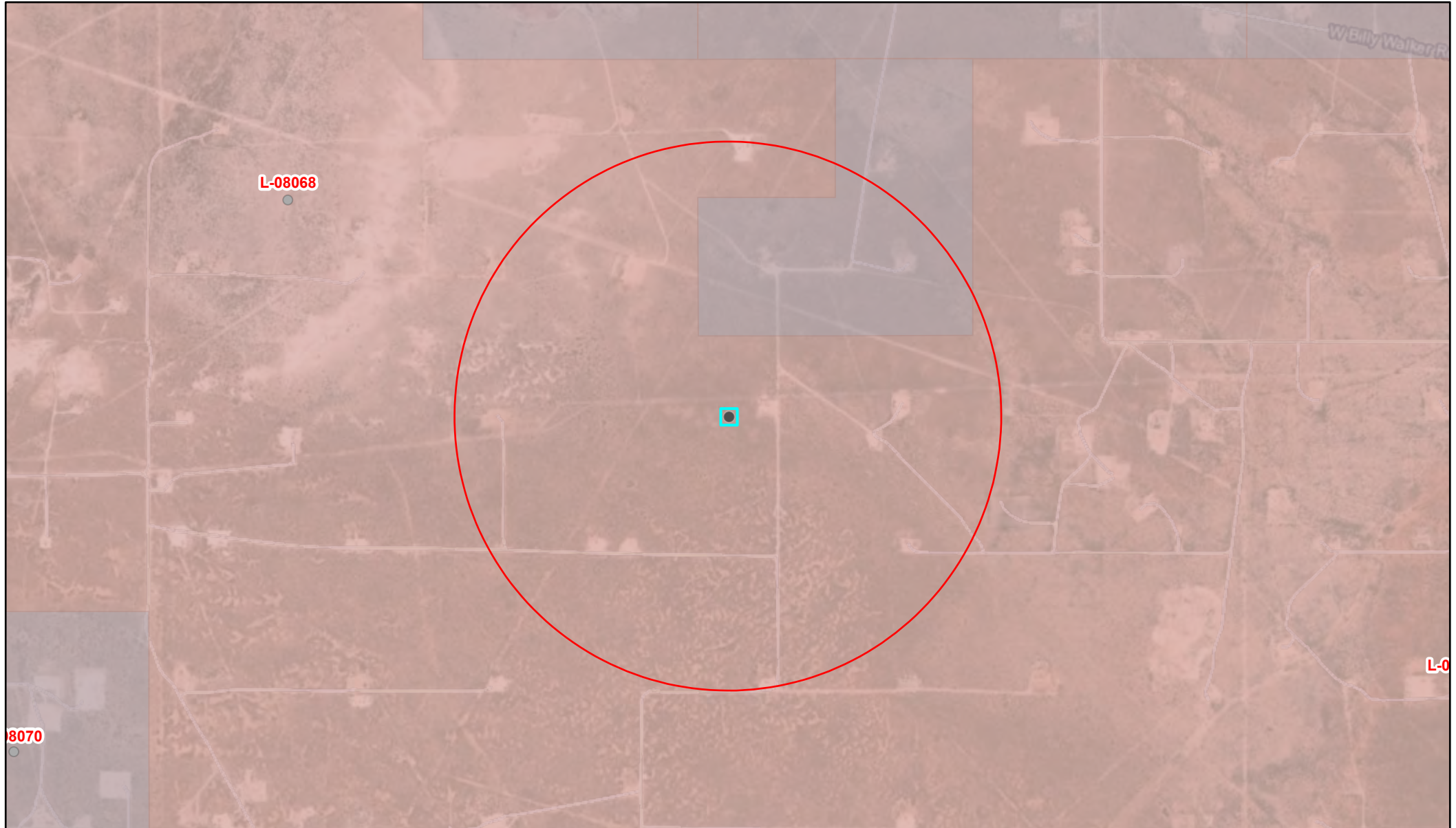
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
JA	Jal association	59.0	6.1%
KM	Kermit soils and Dune land, 0 to 12 percent slopes	378.5	38.9%
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	116.3	11.9%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	204.6	21.0%
MN	Ratliff-Wink fine sandy loams	81.8	8.4%
PY	Pyote soils and Dune land	47.4	4.9%
SE	Simona fine sandy loam, 0 to 3 percent slopes	86.8	8.9%
Totals for Area of Interest		974.3	100.0%



12/21/2023, 11:21:49 AM



Britt B Well #24 Flowline Release OSE POD Location Map



12/21/2023, 11:42:06 AM

GIS WATERS PODs

● Plugged

●



OSE District Boundary

Water Right Regulations



Critical Management Area - Guidelines

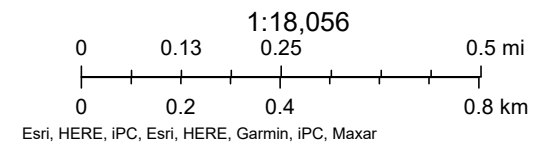


Closure Area

New Mexico State Trust Lands



Both Estates





(In feet)

Average Depth to Water: **53 feet**
Minimum Depth: **30 feet**
Maximum Depth: **70 feet**

Radius: 3000

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.

WATER COLUMN/ AVERAGE DEPTH TO WATER

Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B #024 Flowline Release
Incident ID: nPAC0603034879

February 1, 2024

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA



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

December 20, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B WELL #24 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/18/23 11:21.

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,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 1 (4.0') (H236709-01)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	78.7	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 2 (4.0') (H236709-02)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	127	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	23.8	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 3 (4.0') (H236709-03)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	524	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	197	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 4 (4.0') (H236709-04)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	1440	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	352	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 5 (4.0') (H236709-05)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	645	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	152	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 15 (4.0') (H236709-06)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	37.4	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 16 (4.0') (H236709-07)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	12/19/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	183	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	72.7	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 17 (4.0') (H236709-08)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	44.3	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 18 (4.0') (H236709-09)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	12.8	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 19 (4.0') (H236709-10)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	14.4	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 20 (4.0') (H236709-11)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEx	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	43.6	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 21 (4.0') (H236709-12)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEx	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	11.6	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	<10.0	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/18/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH -22 (4.0') (H236709-13)

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	12/18/2023	ND	1.98	99.1	2.00	11.0		
Toluene*	<0.050	0.050	12/18/2023	ND	2.08	104	2.00	9.29		
Ethylbenzene*	<0.050	0.050	12/18/2023	ND	2.07	103	2.00	9.57		
Total Xylenes*	<0.150	0.150	12/18/2023	ND	6.25	104	6.00	9.51		
Total BTEX	<0.300	0.300	12/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/19/2023	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/19/2023	ND	195	97.3	200	1.54	
DRO >C10-C28*	39.9	10.0	12/19/2023	ND	179	89.6	200	15.2	
EXT DRO >C28-C36	21.8	10.0	12/19/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Britt B Well #24 Flow Line Release

281-755-8965

Project Location:

Lea County, NM

Project #:

chuck.terhune@tetratech.com

Invoice to:

212C-MD-03306

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

LAB #
LAB USE ONLY

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)
1	BH-1 (4.0')	12/15/2023	X						
2	BH-2 (4.0')	12/15/2023	X						
3	BH-3 (4.0')	12/15/2023	X						
4	BH-4 (4.0')	12/15/2023	X						
5	BH-5 (4.0')	12/15/2023	X						
6	BH-6 (4.0')	12/15/2023	X						
7	BH-7 (4.0')	12/15/2023	X						
8	BH-8 (4.0')	12/15/2023	X						
9	BH-9 (4.0')	12/15/2023	X						
10	BH-10 (4.0')	12/15/2023	X						

Relinquished by:

Date: Time:

Jorge Fernandez Vela

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

-3.7°C

#140

Special Report Limits or TRRP Report

Rush Charges Authorized

Rush Same Day 24 hr 48 hr 72 hr

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 2 of 2

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

Project Name: **Britt B Well #24 Flow Line Release** 281-755-8965

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

Invoice to: **212C-MD-03306**

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

Comments: **Cardinal Labs**

H236709		LAB #		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)		ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
(LAB USE ONLY)		YEAR: 2023		DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
11	BH-20 (4.0')		12/15/2023				X						X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

Relinquished by: **Jorge Fernandez** Date: **12-18-23** Time: **11:22**

Received by: **Jorge Fernandez** Date: **12-18-23** Time: **11:21**

Relinquished by: **Jorge Fernandez** Date: **12-18-23** Time: **11:22**

Received by: **Jorge Fernandez** Date: **12-18-23** Time: **11:21**

LAB USE ONLY

Sample Temperature: **-3.7°C**

REMARKS: **Standard TAT**

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

ORIGINAL COPY



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

December 20, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B WELL #24 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 14 (4.0') (H236736-01)

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	12/19/2023	ND	2.36	118	2.00	4.79	
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08	
Total BTEX	<0.300	0.300	12/19/2023	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	256	16.0	12/20/2023	ND	432	108	400	3.64		

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	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	233	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	55.3	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 157 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 6 (4.0') (H236736-02)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/20/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	74.3	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	28.4	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 7 (4.0') (H236736-03)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	12/20/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	86.0	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	31.1	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 8 (4.0') (H236736-04)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEX	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	12/20/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	15.4	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 1 (H236736-05)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEx	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	16.0	16.0	12/20/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	163	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	78.4	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 2 (H236736-06)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEX	<0.300	0.300	12/19/2023	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	12/20/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	88.0	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	38.6	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 3 (H236736-07)

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	12/19/2023	ND	2.36	118	2.00	4.79		
Toluene*	<0.050	0.050	12/19/2023	ND	2.36	118	2.00	1.42		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.45	122	2.00	1.47		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.32	122	6.00	2.08		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	191	95.5	200	0.539	
DRO >C10-C28*	80.0	10.0	12/20/2023	ND	186	92.8	200	4.66	
EXT DRO >C28-C36	35.5	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 4 (H236736-08)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	175	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	64.5	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 5 (H236736-09)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	178	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	70.6	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 6 (H236736-10)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTX	<0.300	0.300	12/19/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	88.3	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	30.6	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 7 (H236736-11)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	95.6	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	37.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 11 (H236736-12)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	136	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	52.3	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 13 (H236736-13)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	48.8	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	12.3	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 14 (H236736-14)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	287	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	133	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 15 (H236736-15)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	95.2	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	34.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 16 (H236736-16)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	148	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	58.2	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 17 (H236736-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	55.1	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 18 (H236736-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	105	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	38.4	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 19 (H236736-19)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	123	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	48.3	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 20 (H236736-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	44.5	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 21 (H236736-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	124	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	44.2	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 22 (H236736-22)

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	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174	
DRO >C10-C28*	83.4	10.0	12/20/2023	ND	193	96.6	200	5.21	
EXT DRO >C28-C36	11.8	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2023	Sampling Date:	12/18/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	BRITT B WELL #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 23 (H236736-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/19/2023	ND	2.08	104	2.00	1.06		
Toluene*	<0.050	0.050	12/19/2023	ND	2.18	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.22	111	2.00	2.01		
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.69	112	6.00	3.17		
Total BTEX	<0.300	0.300	12/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	185	92.4	200	0.174		
DRO >C10-C28*	104	10.0	12/20/2023	ND	193	96.6	200	5.21		
EXT DRO >C28-C36	36.8	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

901 W Main 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 Well #24 Flow Line Release

281-755-8965

Project Location:

Lea County, NM

Project #:

chuck.terhune@tetratech.com

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

4236736

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)
1	BH-14 (4.0')	12/18/2023	X						
2	BH-6 (4.0')	12/18/2023	X						
3	BH-7 (4.0')	12/18/2023	X						
4	BH-8 (4.0')	12/18/2023	X						
5	SW-1	12/18/2023	X						
6	SW-2	12/18/2023	X						
7	SW-3	12/18/2023	X						
8	SW-4	12/18/2023	X						
9	SW-5	12/18/2023	X						
10	SW-6	12/18/2023	X						

Inquired by:

Jorge Fernandez Vals

Date: 12/19/23

Inquired by:

Date: 12/19/23

Inquired by:

Date: 12/19/23

Jorge Fernandez Vals
12/19/23
12/19/23

Received by:

Date: 12/19/23

Sample Temperature

#140

LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Britt B Well #24 Flow Line Release

281-755-8965

Project Location:

Lea County, NM

Project #:

212C-MD-03306

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

LAB # LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		YEAR 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

11	SW-7		12/18/2023		X			X											
12	SW-11		12/18/2023		X			X											
13	SW-13		12/18/2023		X			X											
14	SW-14		12/18/2023		X			X											
15	SW-15		12/18/2023		X			X											
16	SW-16		12/18/2023		X			X											
17	SW-17		12/18/2023		X			X											
18	SW-18		12/18/2023		X			X											
19	SW-19		12/18/2023		X			X											
20	SW-20		12/18/2023		X			X											

Relinquished by: Jorge Fernandez Vela

Date: 12/19/23 Time: 1800

Received by: [Signature]

Date: 12/19/23 Time: 12:15

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Britt B Well #24 Flow Line Release

281-755-8965

chuck.terhune@tetratech.com

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-03306

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Comments:

LAB #
LAB USE ONLY

SAMPLE IDENTIFICATION

YEAR: 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
	12/18/2023		X			X				
	12/18/2023		X			X				
	12/18/2023		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: *Jorge Fernandez* Date: 12/19/23 Time: 18:00

Relinquished by: *Jorge Fernandez* Date: 12/19/23 Time: 18:00

Relinquished by: *Jorge Fernandez* Date: 12/19/23 Time: 18:00

Received by: *Jorge Fernandez* Date: 12-19-23 Time: 12:15

LAB USE ONLY

REMARKS: Standard TAT

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

ORIGINAL COPY



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

December 28, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #24 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 8:36.

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 "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 11 (H236817-01)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 (H236817-02)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 14 (H236817-03)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 15 (H236817-04)

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	12/22/2023	ND	2.20	110	2.00	2.02		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.82		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.61		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.69	111	6.00	1.40		
Total BTEX	<0.300	0.300	12/22/2023	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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 16 (H236817-05)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 18 (H236817-06)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 19 (H236817-07)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 21 (H236817-08)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 23 (H236817-10)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEx	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 1 (H236817-11)

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	12/22/2023	ND	1.99	99.6	2.00	0.248	
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/22/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 2 (H236817-12)

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	12/22/2023	ND	1.99	99.6	2.00	0.248	
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400	
Total BTEX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H236817-13)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	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	<16.0	16.0	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 4 (H236817-14)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEx	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/22/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2023	Sampling Date:	12/21/2023
Reported:	12/28/2023	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: SW - 5 (H236817-15)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEx	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H236817-16)

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	12/22/2023	ND	1.99	99.6	2.00	0.248		
Toluene*	<0.050	0.050	12/22/2023	ND	2.11	105	2.00	0.827		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.12	106	2.00	0.163		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.41	107	6.00	0.400		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 (H236817-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2023	ND	2.20	110	2.00	2.02		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.82		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.61		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.69	111	6.00	1.40		
Total BTEx	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 8 (H236817-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2023	ND	2.20	110	2.00	2.02		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.82		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.61		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.69	111	6.00	1.40		
Total BTEX	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 (H236817-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2023	ND	2.20	110	2.00	2.02	
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.82	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.61	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.69	111	6.00	1.40	
Total BTEx	<0.300	0.300	12/22/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/22/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #24 FLOW LINE RELEASE
 Project Number: 212C - MD - 03306
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 (H236817-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2023	ND	2.20	110	2.00	2.02		
Toluene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.82		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.23	112	2.00	1.61		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.69	111	6.00	1.40		
Total BTEX	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2023	ND	187	93.3	200	3.51	
DRO >C10-C28*	<10.0	10.0	12/23/2023	ND	155	77.7	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	12/23/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Tetra Tech, Inc.

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

Maverick Natural Resources

Site Manager:

Chuck Terhune

Britt B Well #24 Flow Line Release

281-755-8965

chuck.terhune@tetratech.com

Lea County, NM

Project #:

212C-MD-03306

Attn: Chuck Terhune

Laboratory:

Sampler Signature:

Cardinal Labs

Jorge Fernandez

SAMPLE IDENTIFICATION

#	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST
		YEAR 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	
1	SW-11		12/21/2023		X			X		BTEX 8021B BTEX 8260B
2	SW-12		12/21/2023		X			X		TPH TX1005 (Ext to C35)
3	SW-14		12/21/2023		X			X		TPH 8015M (GRO - DRO - ORO - MRO)
4	SW-15		12/21/2023		X			X		PAH 8270C
5	SW-16		12/21/2023		X			X		Total Metals Ag As Ba Cd Cr Pb Se Hg
6	SW-18		12/21/2023		X			X		TCLP Metals Ag As Ba Cd Cr Pb Se Hg
7	SW-19		12/21/2023		X			X		TCLP Volatiles
8	SW-21		12/21/2023		X			X		TCLP Semi Volatiles
9	SW-22		12/21/2023		X			X		RCI
10	SW-23		12/21/2023		X			X		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

Received by: Chuck Terhune Date: 12-22-23 Time:

Received by: Medvion Date: 12-22-23 Time: 0830

Received by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: -4.2c

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr 48 hr 72

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # #140

Tetra Tech, Inc.

901 W. Wall Street, Ste 100
Midland, Texas 79701
Tel (412) 682-4559
Fax (412) 682-3946

Client: Maverick Natural Resources

Site Manager:

Chuck Terhune

Sample: Britt B Well #24 Flow Line Release

281-755-8965

Location: Lea County, NM

Project #:

212C-MD-03306

Atttn: Chuck Terhune

Laboratory:

Sampler Signature:

Cardinal Labs

Jorge Fernandez

SAMPLE IDENTIFICATION

I#	YEAR 2023	DATE	TIME	MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST	
				WATER	SOIL	HCL	HNO ₃	ICE				BTEX 8021B	BTEX 8260B
11	SW-1	12/21/2023		X				X				X	X
12	SW-2	12/21/2023		X				X				X	X
13	SW-3	12/21/2023		X				X				X	X
14	SW-4	12/21/2023		X				X				X	X
15	SW-5	12/21/2023		X				X				X	X
16	SW-6	12/21/2023		X				X				X	X
17	SW-7	12/21/2023		X				X				X	X
18	SW-8	12/21/2023		X				X				X	X
19	SW-9	12/21/2023		X				X				X	X
20	SW-10	12/21/2023		X				X				X	X

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature

-4.2°C

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #

\$140



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

December 28, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #34

Enclosed are the results of analyses for samples received by the laboratory on 12/22/23 12:38.

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 "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #34
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA COUNTY

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 9 (4') (H236826-01)

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	12/22/2023	ND	1.95	97.7	2.00	1.76	
Toluene*	<0.050	0.050	12/22/2023	ND	2.06	103	2.00	1.18	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.04	102	2.00	1.81	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.17	103	6.00	1.83	
Total BTX	<0.300	0.300	12/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	12/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	199	99.7	200	1.12	
DRO >C10-C28*	108	10.0	12/22/2023	ND	187	93.7	200	1.70	
EXT DRO >C28-C36	22.6	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #34
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA COUNTY

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 10 (4') (H236826-02)

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	12/22/2023	ND	1.95	97.7	2.00	1.76		
Toluene*	<0.050	0.050	12/22/2023	ND	2.06	103	2.00	1.18		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.04	102	2.00	1.81		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.17	103	6.00	1.83		
Total BTEx	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	199	99.7	200	1.12	
DRO >C10-C28*	391	10.0	12/22/2023	ND	187	93.7	200	1.70	
EXT DRO >C28-C36	77.9	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #34
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA COUNTY

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 11 (4') (H236826-03)

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	12/22/2023	ND	1.95	97.7	2.00	1.76		
Toluene*	<0.050	0.050	12/22/2023	ND	2.06	103	2.00	1.18		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.04	102	2.00	1.81		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.17	103	6.00	1.83		
Total BTEX	<0.300	0.300	12/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	199	99.7	200	1.12	
DRO >C10-C28*	408	10.0	12/22/2023	ND	187	93.7	200	1.70	
EXT DRO >C28-C36	122	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #34
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA COUNTY

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 12 (4') (H236826-04)

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	12/22/2023	ND	1.95	97.7	2.00	1.76		
Toluene*	<0.050	0.050	12/22/2023	ND	2.06	103	2.00	1.18		
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.04	102	2.00	1.81		
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.17	103	6.00	1.83		
Total BTEX	<0.300	0.300	12/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	199	99.7	200	1.12	
DRO >C10-C28*	164	10.0	12/22/2023	ND	187	93.7	200	1.70	
EXT DRO >C28-C36	23.3	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2023
 Reported: 12/28/2023
 Project Name: BRITT B #34
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA COUNTY

Sampling Date: 12/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 13 (4') (H236826-05)

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	12/22/2023	ND	1.95	97.7	2.00	1.76	
Toluene*	<0.050	0.050	12/22/2023	ND	2.06	103	2.00	1.18	
Ethylbenzene*	<0.050	0.050	12/22/2023	ND	2.04	102	2.00	1.81	
Total Xylenes*	<0.150	0.150	12/22/2023	ND	6.17	103	6.00	1.83	
Total BTEx	<0.300	0.300	12/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/27/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2023	ND	199	99.7	200	1.12	
DRO >C10-C28*	299	10.0	12/22/2023	ND	187	93.7	200	1.70	
EXT DRO >C28-C36	54.5	10.0	12/22/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Chuck Johnson Address: City: State: Zip: Phone #: Fax #: - Project #: Project Owner: Marynck Project Name: Bratt B #24 Project Location: lea co. Sampler Name: Adrian FOR LAB USE ONLY				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. Sample I.D.				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX PRESERV SAMPLING			
1230820 1 2 3 4 5				BH 9 (4') BH 10 (4') BH 11 (4') BH 12 (4') BH 13 (4')				DATE TIME 12/21 ↑			
Relinquished By: Adrian Date: 12/22 Time: 12:38 Relinquished By:				Received By: Spodick Date: 12/22 Time:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C Corrected Temp. °C				Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Turnaround Time: Thermometer ID #148 Correction Factor 0°C				CHECKED BY: (Initials) SR				Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Observed Temp. °C Corrected Temp. °C			



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

January 03, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BRITT B #24 FLOW LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/02/24 13:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/02/2024	Sampling Date:	01/02/2024
Reported:	01/03/2024	Sampling Type:	Soil
Project Name:	BRITT B #24 FLOW LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03306	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: BH - 4 (6.0') (H240005-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/02/2024	ND	1.92	95.9	2.00	8.29	
Toluene*	<0.050	0.050	01/02/2024	ND	1.87	93.4	2.00	8.89	
Ethylbenzene*	<0.050	0.050	01/02/2024	ND	1.85	92.7	2.00	8.52	
Total Xylenes*	<0.150	0.150	01/02/2024	ND	5.40	89.9	6.00	8.66	
Total BTEX	<0.300	0.300	01/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	01/03/2024	ND	416	104	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/02/2024	ND	184	91.9	200	0.385	
DRO >C10-C28*	286	10.0	01/02/2024	ND	177	88.7	200	0.949	
EXT DRO >C28-C36	72.6	10.0	01/02/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



Tetra Tech, Inc.

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

Page 4 of 4

Maverick Natural Resources

Site Manager:

Chuck Terhune

Britt B Well #24 Flow Line Release

281-755-8965

Lea County, NM

chuck.terhune@tetratech.com

Project #:

212C-MD-03306

Attn: Chuck Terhune

Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

SAMPLE IDENTIFICATION

I #	USE	DATE	TIME	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
				YEAR: 2023		WATER	SOIL	HCL	HNO ₃		
1		BH-4 (6.0')		1/2/2024		X			X		

ANALYSIS REQUEST (Circle or Specify Method No.)

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

by:	Date:	Time:	Received by:	Date:	Time:
by:	1/2/24	1342	by:	1/3/24	1348

by:	Date:	Time:	Received by:	Date:	Time:
by:			by:		

LAB USE ONLY

Sample Temperature

39.1

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr 48 hr 72

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B #024 Flowline Release
Incident ID: nPAC0603034879

February 1, 2024

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION



☀ 11°N (T) LAT: 32.585281 LON: -103.229897 ±4m ▲ 1089m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:38:02 MST



☉ 182°S (T) LAT: 32.585323 LON: -103.229879 ±4m ▲ 1095m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:38:22 MST



☉ 357°N (T) LAT: 32.585426 LON: -103.229870 ±4m ▲ 1094m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:38:36 MST

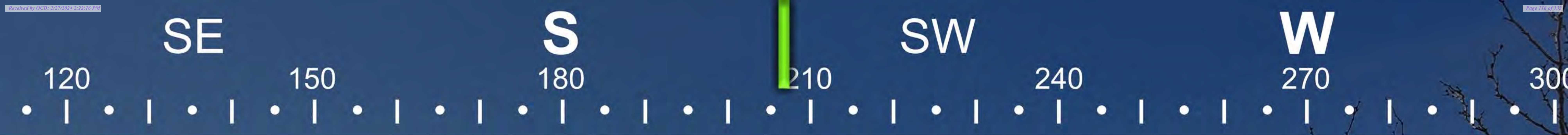


☀ 174°S (T) LAT: 32.585484 LON: -103.229888 ±4m ▲ 1090m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:39:26 MST



☀ 207°SW (T) LAT: 32.585267 LON: -103.229905 ±4m ▲ 1094m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:41:03 MST



☀ 144°SE (T) LAT: 32.584769 LON: -103.229694 ±4m ▲ 1090m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:44:09 MST



☀ 180°S (T) **LAT: 32.584570 LON: -103.229500 ±4m ▲ 1092m**



Site Remediation
Tetra Tech

Maverick- Britt B #24
Dec 22 2023, 11:44:36 MST



☉ 319°NW (T) LAT: 32.584749 LON: -103.229747 ±4m ▲ 1096m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Jan 09 2024, 10:17:18 MST

NE

E

SE

S

SW

60

90

120

150

180

210

☀ 131°SE (T) LAT: 32.584695 LON: -103.229677 ±4m ▲ 1095m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Jan 09 2024, 10:17:30 MST



☉ 340°N (T) LAT: 32.584470 LON: -103.229508 ±4m ▲ 1095m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Jan 09 2024, 10:18:02 MST



☉ 320°NW (T) LAT: 32.584466 LON: -103.229378 ±4m ▲ 1095m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Jan 09 2024, 10:18:35 MST



☀ 200°S (T) LAT: 32.584602 LON: -103.229473 ±4m ▲ 1093m



Site Remediation
Tetra Tech

Maverick- Britt B #24
Jan 09 2024, 10:19:13 MST

Assessment, Remediation, and Closure Report
Maverick Permian, LLC
Britt B #024 Flowline Release
Incident ID: nPAC0603034879

February 1, 2024

ATTACHMENT 5 – SEED MIXTURE DETAILS

NMSLO Seed Mix**Sandy (S)****SANDY (S) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
Total PLS/acre		16.0	

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

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



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

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

QUESTIONS

Action 317958

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	317958
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0603034879
Incident Name	NPAC0603034879 BRITT B #024 @ 30-025-21223
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-21223] BRITT B #024

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BRITT B #024
Date Release Discovered	01/12/2006
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 8 BBL Recovered: 6 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 30 BBL Recovered: 12 BBL Lost: 18 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)	Not answered.

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QUESTIONS, Page 2

Action 317958

QUESTIONS (continued)

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	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 Email: chuck.terhune@tetrattech.com Date: 02/27/2024
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QUESTIONS, Page 3

Action 317958

QUESTIONS (continued)

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	Action Number: 317958
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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 ½ and 1 (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 ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	559
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	5280
GRO+DRO	(EPA SW-846 Method 8015M)	2100
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/07/2023
On what date will (or did) the final sampling or liner inspection occur	01/02/2024
On what date will (or was) the remediation complete(d)	01/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	10500
What is the estimated volume (in cubic yards) that will be reclaimed	1153
What is the estimated surface area (in square feet) that will be remediated	10500
What is the estimated volume (in cubic yards) that will be remediated	1153

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 317958

QUESTIONS (continued)

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QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and 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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 02/27/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 317958

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 317958
	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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Action 317958

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	292149
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2023
What was the (estimated) number of samples that were to be gathered	46
What was the sampling surface area in square feet	10700

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	8000
What was the total volume (cubic yards) remediated	1153
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	8000
What was the total volume (in cubic yards) reclaimed	1153
Summarize any additional remediation activities not included by answers (above)	No additional remediation activities, excavate, confirmation sample, and backfill excavation to meet reclamation standards

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 02/27/2024
--	--

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QUESTIONS, Page 7

Action 317958

QUESTIONS (continued)

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	331199
	Action Number:
	317958
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 317958

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	3/6/2024