

August 24, 2023

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

Re: Release Characterization and Remediation Report
Maverick Permian, LLC
VGEU 02-20 West Flowline Release
Unit Letter D, Section 32, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID nRM2017856312

Dear Sir or Madam:

Tetra Tech, Inc. was contracted by the previous site owner and operator (ConocoPhillips) to assess a petroleum release and subsequent remedial actions taken at the Flowline from Vacuum Gloriettes East Unit (VGEU) 02-20 well (Associated API No. 30-025-37850). The release footprint is located in Public Land Survey System (PLSS) Unit Letter D, Section 32, Township 17 South, and Range 35 East, Lea County, New Mexico (Site). The petroleum release is located approximately 2,800 feet west-northwest of the wellhead at coordinates 32.796421°, -103.487760°, as shown in **Figures 1** and **2**.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on June 16, 2020. The C-141 documentation reports that the release occurred as a result of a flowline rupture and encompasses an estimated area of 3,255 square feet. Approximately 56.48 barrels (bbls) of produced water and 14.12 bbls of oil were released. A total of 0.0 bbls of produced water and 5.0 bbls of oil were recovered during initial response activities. The New Mexico Oil Conservation District (NMOCD) received the C-141 form for the release on June 26, 2020, provided in **Attachment 1**. The New Mexico Oil Conservation District (NMOCD) assigned Incident ID nRM2017856312 to this release.

SITE CHARACTERIZATION

Tetra Tech performed a site characterization which identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). According to data available on the NM OCD Oil and Gas Map, the Site is located in an area of low karst potential.

Tetra Tech, Inc.

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According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are six water wells within ½ mile (800m) of the Site. The three closest of the six water wells (L 14183 POD1, L 14183 POD2, and L 14183 POD3) have current reported depth to water levels less than 25 years old from 2016 with an average depth to groundwater of 105 feet 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, established depth to groundwater, and in accordance with Table 1 of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
ТРН	2,500 mg/kg
ВТЕХ	50 mg/kg
Benzene	10 mg/kg

Remediation RRALs

Additionally, in accordance with the New Mexico Oil Conservation District (NMOCD) guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Reclamation Requirements

Constituent	Site Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
ВТЕХ	50 mg/kg
Benzene	10 mg/kg

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INITIAL RESPONSE ACTIVITIES

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", ConocoPhillips elected to begin remediation of the impacted area footprint in 2020. The initial period of the release was undefined until July 1, 2020. The release area was partially excavated to depths ranging from 2 feet bgs to 5 feet bgs. This excavated area encompasses approximately 3,000 square feet. **Figure 3** depicts the Initial Response and Assessment Approximate Release Extent and Initial Excavation Map.

INITIAL SITE ASSESSMENT SUMMARY

In order to achieve vertical and horizontal delineation of the release extents, Tetra Tech personnel mobilized to the Site and conducted soil sampling on July 1, 2020. A total of thirty-two (32) boreholes were advanced in the vicinity of the release area. Twenty-eight (28) samples (SP#1 through SP#28) were collected within the excavated release area and four (4) samples (SP #29 through SP #32) were collected outside the excavated release area. These soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM45000Cl-B, TPH via EPA Method 9015M, and BTEX via EPA Method 8021B. Sample locations from this site assessment are shown in **Figure 4.**

Based on the analytical results associated with boring locations sampling reported all but three (3) sample locations exceeded Site RRALs for TPH, chloride, and/or BTEX. The analytical results associated with SP#17, SP#29, and SP#30 were below Site RRALs and/or reclamation requirements above 4 feet bgs. Sample results from the initial assessment are summarized in **Table 1**. Neither horizontal nor vertical delineation was achieved during the initial assessment.

ADDITIONAL SITE ASSESSMENT AND DELINEATION ACTIVITIES AND RESULTS

In order to achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling from January 18, 2021, to May 25, 2021, on behalf of the former operator. Tetra Tech returned to the Site on January 18, 2021, to complete vertical and horizontal delineation of the release extent. A total of nine (9) borings (BH-1 through BH-9) were advanced in the vicinity of the release area. Three (3) borings (BH-1 through BH-3) were installed southeast of the perimeter of the release extent to depths ranging from 15 feet bgs to 30 feet bgs to determine the vertical delineation of the impacted soil. Five (5) borings (BH-4 through BH-8) were installed along the perimeter of the release extent to a depth of 10 feet bgs to determine the vertical impact of the release. Due to the inaccessibility of the drill rig, located west of the release footprint, one (1) hand auger boring (BH-9) was installed to a depth of 1.5 feet bgs to horizontally delineate to the west of the release footprint. These additional delineation boring locations are presented in **Figure 4**.

During the January 2021 assessment activities, Tetra Tech personnel observed potential historically impacted and disturbed areas in the vicinity of the release footprint. In an attempt to delineate the observed impacted area, a total of six (6) borings (BH-10 through BH-14 and BH-16) were installed around the perimeter of the

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affected area on May 14, 2021. BH-10 through BH-14 and BH-16 were installed using an air rotary drilling rig to depths ranging from 8 feet bgs to 15 feet bgs.

On May 25, 2021, seven (7) additional borings (AH-1 through AH-7) were installed within and around the potential historically impacted area using a hand auger to discern between the release footprint and the previously disturbed areas. Samples were collected at the 0-1' depth interval from borings AH-1 through AH-7 and at the 1-2' depth interval at AH-6.

A total of eighty-nine (89) samples were collected from the twenty-two (22) additional borings and submitted to Pace Analytical National Center for Testing & Innovation located in Nashville, Tennessee for analysis of BTEX via EPA Method 8021B, TPH Gasoline Range Organics (GRO), TPH Diesel Range Organics (DRO), and TPH Oil Range Organics (ORO) via EPA Method 8015M, and chloride via EPA Method 300.0.

According to the January 2021 sampling event, the analytical results associated with boring locations BH-1 (4-5' interval), BH-2 (2-5' interval), BH-3 (2-3' interval), BH-7 (0-7' interval), BH-8 (0-3' interval) and BH-9 (0-1.5' interval) either exceeded the reclamation requirement and Site RRALs for soils above 4 feet bgs. In addition, analytical results associated with BH-4 at the 9-10' interval exceeded the Site RRALs and/or reclamation requirements for TPH; however, all analytical results above the 9-foot depth interval were below Site RRALs and/or reclamation requirements. The TPH exceedances at 9 feet bgs are presumably related to an unrelated historical release based on the uncontaminated surface soil.

The analytical results associated with the May 2021 assessment activities indicated unrelated historical impact in the vicinity of the release footprint. Analytical results at BH-11 (9-10') and BH-16 (9-10') exceeded the Site RRAL for TPH, but the analyzed samples stratigraphically above 9 feet were below Site RRALs and reclamation requirements. Again, these TPH exceedances at 9 feet bgs are presumably related to an unrelated historical release, based on the uncontaminated surface soil. Analytical results associated with AH-2 were above the reclamation requirement for TPH; however, analytical results associated with boring locations between the nRM2017856312 release footprint and AH-2 (BH-11, AH-3, AH-6, and AH-7) were below the Site RRALs and/or reclamation requirements at corresponding depth intervals. Results from the January and May 2021 soil sampling events are summarized in **Tables 2** and **3**.

REMEDIATION WORK PLAN

On behalf of ConocoPhillips, the Release Characterization Work Plan (Work Plan nRM2017856312 VGEU 02-20) was prepared by Tetra Tech and submitted to New Mexico Oil Conservation District (NMOCD) on October 7, 2021, with the fee application payment PO Number AGLL5-211007-C-1410. The Work Plan described the results of the release assessment and provided site characterization details. The Work Plan was approved via email by Chad Hensley on Monday, November 15, 2021.

On December 20, 2021, via email, COP requested a 60-day extension to NMOCD for Incident ID nRM2017856312. This extension was requested to allow sufficient time to conduct additional assessment and revisions to the workplan to address and implement further conditions required by the NMOCD. The 60-day extension was

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granted via email by Chad Hensley on December 20, 2021. Regulatory correspondence concerning the initial work plan approval.

CULTURAL RESOURCES SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech contracted SWCA Environmental Consultants to perform a Class III Cultural Resources Survey for the remediation area under New Mexico Cultural Resources Investigation System (NMCRIS) Activity No. 152940. Ms. Robin Cordero of SWCA conducted the survey on May 15, 2023, which included an intensive pedestrian survey of the VGEU 02-20 remediation site and immediate vicinity covering 2.72 acres, which included a 100-ft cultural resources buffer around the location.

No archaeological sites or historic properties were observed during the current investigation. One isolated occurrence (IO), a crushed sanitary can, was recorded as IO 1 during the survey. No additional investigation or treatment is recommended regarding the current undertaking. No subsurface cultural materials were encountered during remediation. The cover page from the Class III Cultural Resources Survey is included in **Attachment 4**.

REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the release and the approved remediation work plan, excavation activities commenced on June 20, 2023, and backfilling was completed on July 24, 2023. Maverick's subcontractor, SDR Enterprises, used heavy equipment to excavate a total of 1,500 cubic yards of impacted soil from the release footprint shown in **Figure 5**. Excavations were completed to a maximum depth of 10 feet below grade surface with portions of excavation completed to 2.0 feet, 2.5 feet, 4.5 feet, 5.0 feet, and 7.5 feet bgs, as shown in **Figure 6**. To avoid any potential contact with pressurized lines that could be damaged by heavy equipment, the minimum approach distance was implemented at a distance of at least 2 feet from any pressurized lines. Hydro excavation and hand digging were utilized to excavate soil within two (2) feet of any active underground lines to safely conduct remediation activities. Excavated soils were transported offsite for disposal at R360, in Hobbs, New Mexico.

Upon reaching the final lateral and vertical excavation extents, 43 confirmation samples were collected, including 17 from the floors and 23 from the side walls of the excavated areas, in accordance with the NMOCD-approved Remediation Workplan. Confirmation samples were submitted to Cardinal Laboratory in Hobbs, NM for analysis of chloride (SM4500 CL-B), TPH (8015M), and BTEX (8021B). In several instances initial sidewall confirmation sample results reported chloride or TPH at concentrations greater than Reclamation Requirements. In these instances, the excavation was laterally expanded and confirmation samples were collected and submitted for analysis until chloride, TPH, and BTEX concentrations were reported as less than Reclamation Requirements. Final confirmation sample locations are depicted in **Figure 6**.

Laboratory analytical results for submitted confirmation samples reported chloride, TPH, and BTEX concentrations as less than respective Reclamation Requirements or RRALs for all samples. Subsequent to the

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receipt of final confirmation sampling results, Between July 24 and 23, 2023 SDR completed backfilling of the excavated areas with 1,680 CY of clean topsoil obtained from the Bob McCassland pit and trucked to the Site.

Upon completion of backfilling, the surface was seeded with NMSLO Sandy Loam (SL) Sites Seed Mixture. Soil classification for the Site was obtained from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Resource Report for Lea County New Mexico. The USDA NRCS Soil Resources Report and NMSLO seed mix are provided in **Attachment 5**.

Confirmation sampling results are summarized in **Tables 4** and **5** 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 6**.

CONCLUSIONS

Based on the results of the confirmation sampling, the impacted soil within the release footprint with BTEX, TPH, or chloride at concentrations greater than Reclamation Requirements or RRALs, as applicable, has been removed and properly disposed of. The Site remediation has been completed, the excavations have been backfilled with clean material, and the surface has been graded back to match the surrounding topography. The disturbed areas resulting from remediation have been seeded for vegetation growth and reclamation completion. If you have any questions concerning the remediation activities for the Site, please call me at (832) 255-2093.

Sincerely,

 $Britton\ Mosley,\ Jr.,\ M.S.E.M,\ P.M.P.,\ R.E.P.$

Environmental Project Manager

Tetra Tech, Inc.

Charles H. Terhune IV, P.G.

Program Manager

Tetra Tech, Inc.

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Cc:

Mr. Bryce Wagoner – Maverick Natural Resources

New Mexico State Land Office

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LIST OF ATTACHMENTS

Figures

Figure 1 - Overview Map

Figure 2 - Site Location/Topographic Map

Figure 3 - Initial Response and Assessment

Figure 4 - Additional Assessment

Figure 5 – Additional Delineation Locations

Figure 6 - Remediation Extent and Confirmation Sample Locations

Tables

Table 1 - Summary of Soil Analytical Results - Initial Soil Assessment Sampling

Table 2 - Summary of Soil Analytical Results - Soil Assessment Sampling

Table 3 - Summary of Soil Analytical Results - Additional Soil Delineation Sampling

Table 4 - Summary of Soil Analytical Results - Soil Shallow Confirmation Sampling

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Table 5 - Summary of Soil Analytical Results - Soil Deep Confirmation Sampling

Appendices

Attachment 1 - C-141 Form

Attachment 2 - Site Characterization Data

Attachment 3 - Laboratory Analytical Data

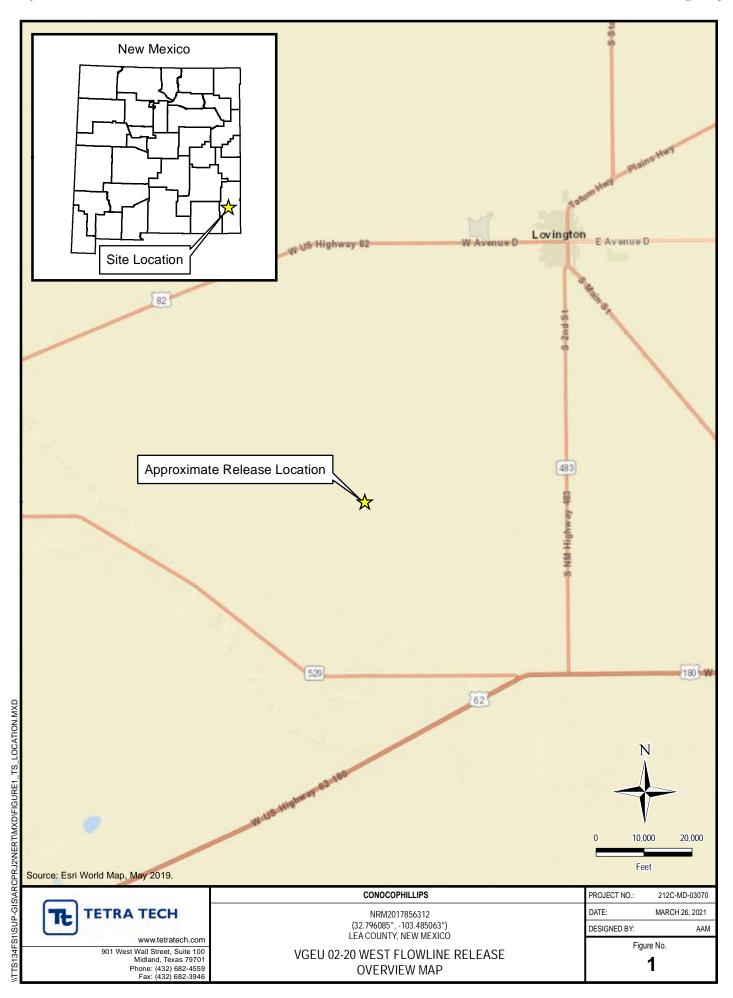
Attachment 4 – Class III Cultural Resources Survey cover page

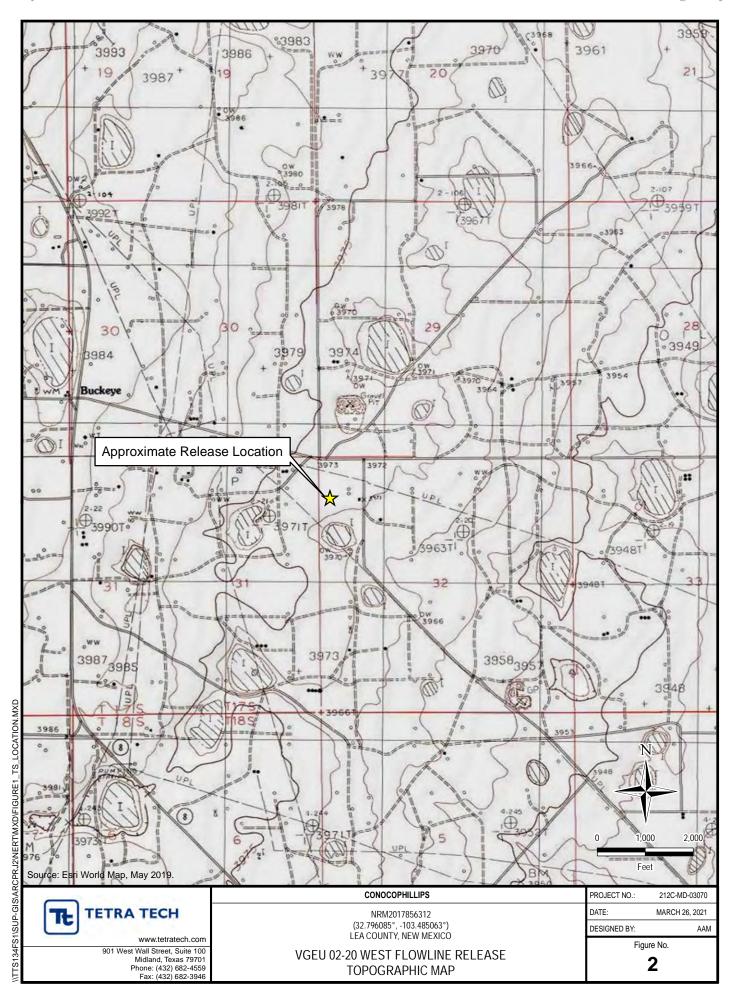
Attachment 5 – NMSLO Seed Mixture Details

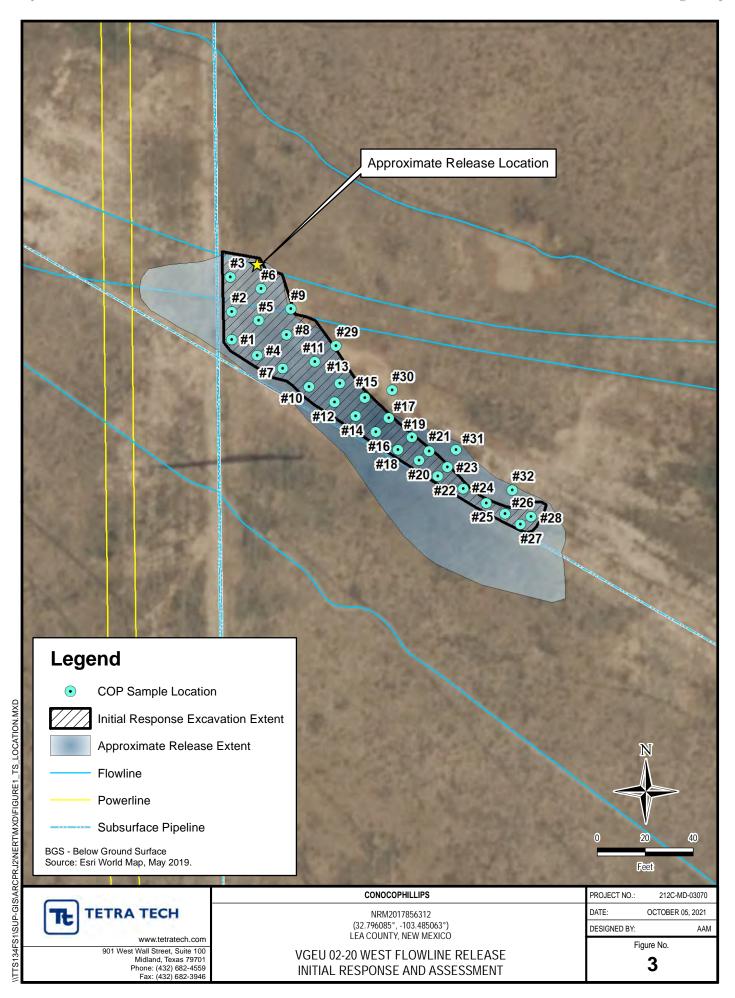
Attachment 6 - Photographic Documentation

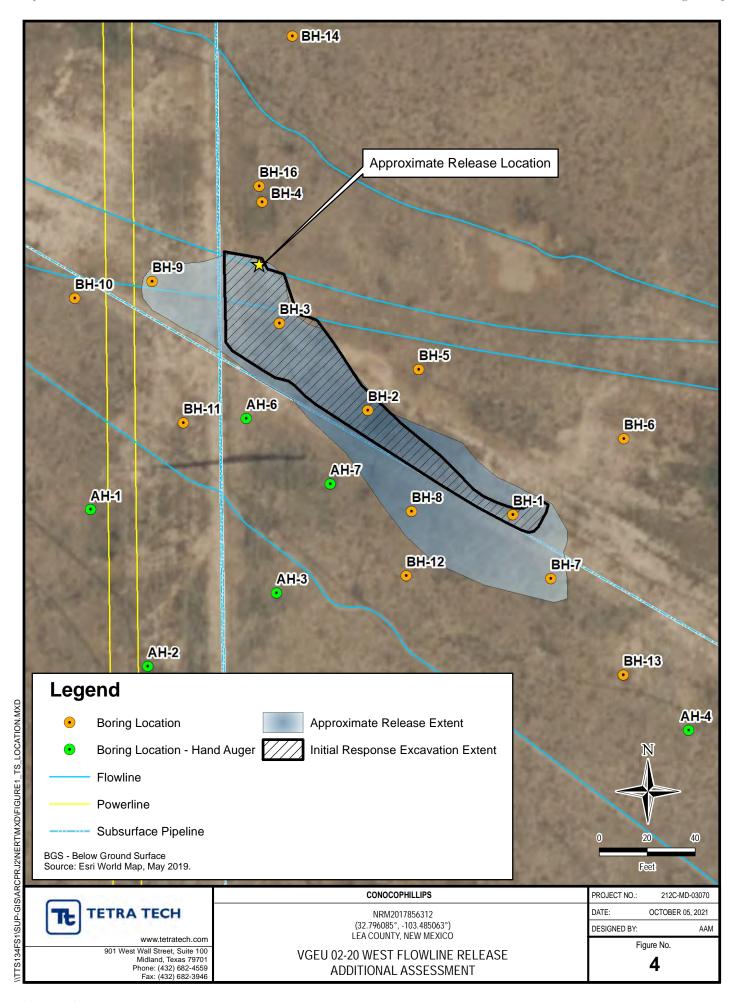
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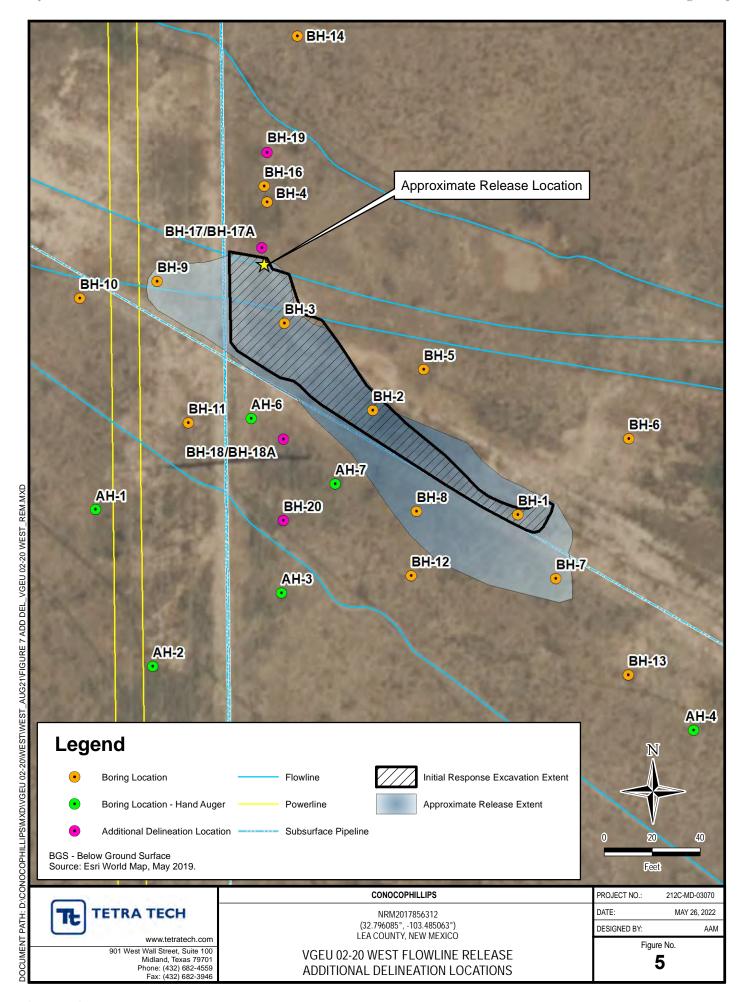
FIGURES

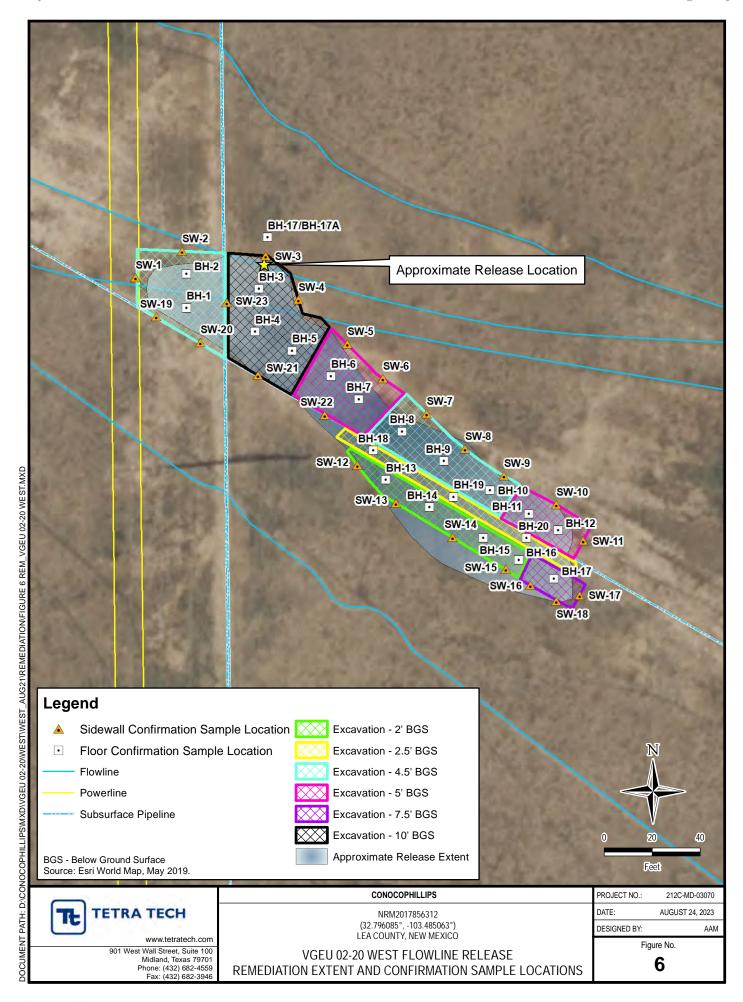












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TABLES

SUMMARY OF SOIL ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT SAMPLING - INCIDENT ID NAPP2207049431

MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

									BTEX ²										TPH ³		
6	Consideration	Sample Depth	Chloride	2 ¹					est. Il.		= and with a		T		GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Benzene	•	Toluene		Ethylbenze	ne	Total Xylen	es	Total BTE	X	C ₆ - C ₁₀		> C ₁₀ - C ₂₈	3	> C ₂₈ - C ₃	6	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
clamation Require	ements (19.15.29 NM	AC)	600		10								50								100
SP #1	7/1/2020	2.0	4,360		< 0.050		0.051		0.158		< 0.150		0.323		< 10.0		1,560		517		2,077
SP #2	7/1/2020	2.0	12,400		< 0.050		0.073		0.147		0.302		0.523		11		7,450		1,700		9,161
SP #3	7/1/2020	2.0	3,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		5,680		1,750		7,430
SP #4	7/1/2020	2.0	10,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,920		687		2,607
SP #5	7/1/2020	2.0	18,300		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		2,140		786		2,926
SP #6	7/1/2020	2.0	15,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		533		188		721
SP #7	7/1/2020	2.0	15,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,670		610		2,280
SP #8	7/1/2020	2.0	17,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		3,780		1,190		4,970
SP #9	7/1/2020	2.0	7,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		4,260		1,300		5,560
SP #10	7/1/2020	2.0	15,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,260		327		1,587
SP #11	7/1/2020	2.0	14,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,930		595		2,525
SP #12	7/1/2020	2.0	6,130		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		452		247	П	699
SP #13	7/1/2020	2.0	8,660		< 0.050		< 0.050		0.067		0.168		< 0.300		< 10.0		2,300		651		2,951
SP #14	7/1/2020	2.0	5,860		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		8,550		2,330		10,880
SP #15	7/1/2020	2.0	8,660		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,260		543		1,803
SP #16	7/1/2020	5.0	3,040		< 0.050		2.77		43		31.2		77		1,160		3,970		543		5,673
SP #17	7/1/2020	5.0	2,360		< 0.050		0.216		4.18		2.78		7.17		71.8		369		< 50.0		441
SP #18	7/1/2020	5.0	8,660		< 0.050		0.848		16.6		16.1		33.5		868		4,030		612	П	5,510
SP #19	7/1/2020	5.0	1,880		< 0.050		0.442		< 0.100		10.9		11.4		597		5,050		826		6,473
SP #20	7/1/2020	3.5	6,160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		19.3		1,840		605	П	2,464
SP #21	7/1/2020	3.5	5,060		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		2,470		674	П	3,144
SP #22	7/1/2020	3.5	2,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		15.8		3,270		803		4,089
SP #23	7/1/2020	3.5	5,600		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		365		124		489
SP #24	7/1/2020	3.0	3,840		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		10.8		2,100		467		2,578
SP #25	7/1/2020	3.0	3,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,050		390		1,440
SP #26	7/1/2020	2.5	1,540		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		15		2,610		710	\sqcap	3,335
SP #27	7/1/2020	2.5	1,920		< 0.050	1 1	< 0.050		< 0.050		< 0.150		< 0.300		14.8		3,140		857		4,012
SP #28	7/1/2020	2.5	1,380		< 0.050	1 1	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		3,180	\dagger	936		4,116
SP #29	7/1/2020	-	1,380		< 0.050	1 1	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	\dagger	< 10.0	 	<30.0
SP #30	7/1/2020	-	64		< 0.050	1 1	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	\dagger	< 10.0	1 1	<30.0
SP #31	7/1/2020	-	464		< 0.050	1	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		313		64	1 1	377
SP #32	7/1/2020	_	304	+	< 0.050	\dagger	< 0.050		0.176		0.243		0.419		10.2		325		121		456

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 Method SM4500Cl-B
 Method 8021B
 ORO: Oil Range Organics
 Method 8015M

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

SUMMARY OF SOIL ANALYTICAL RESULTS SOIL ASSESSMENT SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

									BTEX ²									TPH ³		
		Sample Depth	Chloride ¹	ı										GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Benzene		Toluene		Ethylbenzer	ne	Total Xylen	es	Total BTEX	C ₆ - C ₁₀		> C ₁₀ - C ₂₅	8	> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Require	ments (19.15.29 NM	IAC)	600		10								50							100
		4-5	4,430		< 0.00111		< 0.00557		0.0959		0.203		0.299	0.973		1,540		1,850		3,391
BH-1	1/18/2021	6-7	213		< 0.00104		< 0.00522		0.00149	J	0.00492	J	0.00641	1.27		273		210		484
DU-1	1/10/2021	9-10	12	J	< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	0.0298	J	6		7		13
		15.0	< 20.7		< 0.00107		< 0.00533		< 0.00266		0.00114	J	0.00114	< 0.103		9		9		18
		2-3	2,450		< 0.00110		< 0.00551		0.0562		0.142		0.198	1.73		930		1,040		1,972
		4-5	3,620		< 0.00114		< 0.00568		0.0376		0.0948		0.132	2.97		1,520		1,420		2,943
BH-2	1/18/2021	6-7	499		< 0.00116		< 0.00581		< 0.00290		< 0.00755		-	0.0458	J	73		84		156
		9-10	42		0.00151		< 0.00589		< 0.00294		< 0.00765		0.00151	0.0292	J	8		9		17
		15.0	34		< 0.00114		< 0.00570		< 0.00285		< 0.00741		-	0.0334	J	9		9		18
		2-3	3,550		< 0.00113		< 0.00567		0.00639		0.0196		0.026	2.22		784		649		1,435
		4-5	5,070		< 0.0459		< 0.229		0.0352	J	0.109	J	0.144	411		3,460		1,650		5,521
		6-7	6,370		< 0.0475		< 0.237		0.0843	J	0.451		0.535	633		3,210		1,450		5,293
BH-3	1/18/2021	9-10	2,940		< 0.0481		< 0.241		0.0697	J	0.284	J	0.354	327		2,280		1,220		3,827
BH-5	1/10/2021	15.0	648		< 0.00112		< 0.00562		0.00208	J	0.00824		0.0103	2.4		337		199		538
		20.0	811		< 0.00451		< 0.0225		0.00349	J	0.0128	J	0.0163	47.4		330		183		560
		25.0	46		< 0.00115		< 0.00575		< 0.00288		< 0.00748		-	0	J	20	Т8	19	T8	38
		30.0	28		< 0.00112		< 0.00560		< 0.00280		< 0.00729		-	< 0.106		20		14		33
		0-1	< 21.2		< 0.00112		< 0.00560		0.00084	J	< 0.00728		0.00084	0.0528	ВJ	4	J	10		14
		2-3	17	J	< 0.00107		< 0.00536		0.000912	J	0.00279	J	0.0037	0.1	ВJ	3	J	6		9
BH-4	1/18/2021	4-5	< 20.8		< 0.00108		< 0.00538		< 0.00269		< 0.00699		-	< 0.104		2	J	3	J	6
		6-7	< 20.6		< 0.00106		< 0.00531		< 0.00266		< 0.00691		-	< 0.103		4	J	13		16
		9-10	< 20.8		< 0.00108		< 0.00542		< 0.00271		< 0.00704		-	< 0.104		1,410		1,980		3,390
		0-1	14	J	< 0.00109		< 0.00547		< 0.00273		< 0.00711		-	< 0.105		8		20		28
		2-3	211		< 0.00109		< 0.00545		< 0.00272		< 0.00708		-	< 0.104		19		25		44
BH-5	1/18/2021	4-5	49		< 0.00106		< 0.00531		< 0.00266		< 0.00691		-	< 0.103		10		12		23
		6-7	< 20.9		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	< 0.105		9		9		18
		9-10	11	J	< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	< 0.104		5		5		10
		0-1	13	J	0.000905	ВJ	< 0.00603		0.00145	J	0.00317	J	0.00553	0.0715	ВJ	12		30		42
		2-3	< 20.7		0.000643	ВJ	< 0.00536		< 0.00268		< 0.00697		0.000643	< 0.104		3	J	7		11
BH-6	1/18/2021	4-5	32		0.000927	ВJ	< 0.00567		0.00259	J	0.00573	J	0.009247	0.0466	ВJ	238		742		980
		6-7	< 21.5		0.00072	J	0.00738		0.00461		0.027		0.0397	7.68		2	J	2	J	12
		9-10	< 20.9		< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	0.0574	J	81		137		218
		0-1	20	J	0.00078	ВJ	< 0.00578		0.0475		0.0896		0.138	0.77		293		869		1,163
		2-3	< 20.6		0.000576	ВJ	< 0.00530		0.0353		0.0841		0.12	1.89		233		586		821
BH-7	1/18/2021	4-5	< 21.3		< 0.00901		< 0.0451		0.205		0.497		0.702	401		3,980		2,090		6,471
		6-7	< 21.4		< 0.00913		< 0.0457		0.0404		0.116		0.156	111		2,320		1,130		3,561
		9-10	< 21.9		< 0.00119		< 0.00595		< 0.00297		< 0.00773		-	0.386		85		52		137

SUMMARY OF SOIL ANALYTICAL RESULTS SOIL ASSESSMENT SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

									BTEX ²										TPH ³		
		Sample Depth	Chloride ²	1											GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Benzene		Toluene		Ethylbenze	ne	Total Xylen	ies	Total BTE	Х	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requir	ements (19.15.29 NM	IAC)	600		10								50								100
		0-1	17	J	0.000746	ВJ	< 0.00552		0.0278		0.0564		0.0849		0.985		314		820		1,135
		2-3	15	J	0.000778	ВJ	< 0.00519		0.00288		0.00875		0.0124		1		921		1,330		2,252
BH-8	1/18/2021	4-5	< 20.4		0.000488	ВJ	< 0.00519		< 0.00260		0.00164	J	0.00213		0.0843	ВJ	320		612		932
		6-7	13	J	< 0.00107		< 0.00533		< 0.00267		< 0.00693		-		< 0.103		13		22		35
		9-10	214		< 0.00110		< 0.00548		< 0.00274		0.00195	J	0.00195		0.629		242		143		386
BH-9	1/18/2021	0-1	17	J	< 0.00112		< 0.00562		0.00227	J	0.0126		0.0149		0.338		1,260		5,100		6,360
DI1-3	1/18/2021	1-1.5	< 20.6		0.000663	ВJ	< 0.00530		0.00313		0.00822		0.0114		0.173	В	520		1,150		1,670
		0-1	10	J	< 0.00113		< 0.00567		< 0.00283		0.00113	J	0.00113		< 0.107		15		31		46
BH-10	5/14/2021	2-3	20	J	< 0.00108		< 0.00540		< 0.00270		< 0.00702		-		< 0.104		2	J	4	J	5
		3-4	14	J	< 0.00103		< 0.00515		< 0.00258		< 0.00670		-		0.0441	J	< 4.06		2	J	2
		0-1	< 21.0		< 0.00110		< 0.00549		< 0.00274		< 0.00713		-		< 0.105		21		30		51
BH-11	5/14/2021	3-4	< 20.4		< 0.00104		< 0.00521		< 0.00260		< 0.00677		-		< 0.102		14		36		50
DI1-11	3/14/2021	4-5	< 20.5		< 0.00105		< 0.00527		< 0.00263		0.00276	J	0.00276		0.119		188		438		626
		9-10	< 20.7		< 0.00857	J3	< 0.0428	J3	0.045	J3	0.703	J3	0.748		94.6		2,170		1,240		3,505
		0-1	104		< 0.00115		< 0.00575		< 0.00288		< 0.00748		-		< 0.107		4	J	17		21
BH-12	5/14/2021	2-3	58		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-		< 0.103		< 4.13		3	J	3
DI1-12	3/14/2021	4-5	17		< 0.00105		< 0.00523		< 0.00261		< 0.00680		-		< 0.102		< 4.09		1	J	1
		9-10	13	J	< 0.00109		< 0.00547		< 0.00273		< 0.00711		-		< 0.105		< 4.19		0	J	0
		0-1	592		< 0.00116		< 0.00581		< 0.00290		< 0.00755		-		< 0.108		4	J	15		19
BH-13	5/14/2021	2-3	397		< 0.00109		< 0.00545		< 0.00272		< 0.00708		-		< 0.104		< 4.18		2	J	2
DI1-13	3/14/2021	3-4	495		< 0.00107		< 0.00537		< 0.00269		< 0.00699		-		< 0.104		< 4.15		1	J	1
		4-5	847		< 0.00113		< 0.00563		< 0.00282		< 0.00732		-		< 0.106		< 4.25		0	J	0
		0-1	14	J	< 0.00111		< 0.00553		< 0.00276		< 0.00719		-		< 0.105		15		32		47
BH-14	5/14/2021	2-3	19	J	< 0.00108		< 0.00538		< 0.00269		< 0.00700		-		< 0.104		3	J	5		8
DH-14	3/14/2021	3-4	15	J	< 0.00106		< 0.00530		< 0.00265		< 0.00690		-		< 0.103		2	J	3	J	6
		9-10	< 20.6		< 0.00106		< 0.00531		< 0.00265		< 0.00690		-		< 0.103		< 4.12		< 4.12		-
BH-16	5/14/2021	0-1	107		< 0.00114		< 0.00571		< 0.00286		< 0.00742		-		< 0.107		5		16		20
pu-10	5/14/2021	9-10	< 21.2		< 0.00112	J3	< 0.00559	J3	< 0.00280	J3	< 0.00727	J3	-		0.488		1,960		2,260		4,220
AH-1	5/25/2021	0-1	< 21.4		0.000824	ВJ	0.00219	J	0.00171	J	0.00418	J	0.0089		< 0.107		9		29		38
AH-2	5/25/2021	0-1	< 21.8		< 0.00118		< 0.00590		< 0.00295		< 0.00767		-		< 0.109		293		908		1,201
AH-3	5/25/2021	0-1	< 22.8		0.000825	J	0.00333	J	0.00127	J	0.00615	J	-		< 0.114		3	J	9		12
AH-4	5/25/2021	0-1	< 21.6		< 0.00116		0.00163	J	< 0.00289		0.00198	J	0.00361		< 0.108		7		15		22
AH-5	5/25/2021	0-1	11	J	< 0.00115		0.00168	J	< 0.00287		0.00247	J	0.00415		< 0.107		13		33		46
<u></u>	E/2E/2024	0-1	< 23.2		< 0.00132		0.00225	J	< 0.00331		0.00278	J	0.00503		< 0.116		6		20		26
AH-6	5/25/2021	1-2	< 22.1		< 0.00121		0.00191	J	< 0.00302		0.00276	J	0.00467		< 0.110		3	J	6	В	8
AH-7	5/25/2021	0-1	< 22.9		< 0.00129		0.00367	J	< 0.00322		0.00338	J	0.00705		< 0.114		5		8.02		13

SUMMARY OF SOIL ANALYTICAL RESULTS SOIL ASSESSMENT SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC

VGEU 02-20 WEST FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

									BTEX ²										TPH ³		
Sample ID	Sample Date	Sample Depth	Chloride ¹	L	Ponzono		Toluene		Ethylbenze		Total Xylen		Total BTE	y .	GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Benzene		Toluene		Ethylbenzei	ne	TOTAL AYIELI	es	TOLATOLE	`	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Require	ments (19.15.29 NM	AC)	600		10																100

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

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

2: Method 8021B

1: Method SM4500Cl-B

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable; the reported value is an estimate.

ORO: Oil Range Organics 3: Method 8015M J3: The associated batch QC was outside the established quality control range for precision.

SUMMARY OF SOIL ANALYTICAL RESULTS ADDITIONAL SOIL DELINEATION SAMPLING - INCIDENT ID NAPP2207049431 MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

									ВТЕ	(²							1	'PH ³		
County ID	Canada Data	Sample Depth	Chloride	1			Talas		Esta dia a		Tatal Va	dan es	Takal DTEV		GRO	DRO)	EXT DRO		Total TPH
Sample ID	Sample Date				Benzene	;	Tolue	ne	Ethylbe	nzene	Total Xy	lenes	Total BTEX		C ₆ - C ₁₀	> C ₁₀ -	C ₂₈	> C ₂₈ - C ₃₀	6	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q mg/	kg Q	mg/kg	Q	mg/kg	Q	mg/kg
Reclamation Requi	rements (19.15.29 NM	AC)	600		10								50							100
RRALs (Table I 19.1	5.29.12 NMAC)		10,000		10								50							2,500
		6 - 7	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30
BH-17	2/18/2022	8 - 9	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	158		120		278
DI1-17	2/18/2022	10 - 11	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	18	3	1,200		355		1,573
		12 - 13	< 16.0		< 0.050		< 0.050		0.121	GC-NC1	0.96	GC-NC1	1.08	13)	2,370		503		3,003
		14 - 15	32		< 0.050		< 0.050	GC-NC	< 0.050	GC-NC	< 0.150	GC-NC	< 0.300	20	QM-07	4,860	QM-07	1,060		6,120
		19 - 20	32		< 0.050		0.332		0.294		4.6		5.23	28	1	4,360		851		5,495
		24 - 25	16		< 0.050		0.136		0.121		2.69		2.95	14	5	2,800		557		3,502
BH-17A	5/24/2022	29 - 30	< 16.0		< 0.050		< 0.050		0.062		0.73		0.793	38	Э	1,440		287		1,766
		34 - 35	< 16.0		< 0.050		0.108		0.177		1.24		1.53	41	4	1,400		287		1,728
		39 - 40	16		< 0.050		< 0.050		0.076		0.407		0.483	21	6	997		219		1,238
		44 - 45	32		< 0.050		0.5		0.894		2.34		3.74	54		1,100		227		1,381
		6 - 7	< 16.0		< 0.050		< 0.050		0.61	GC-NC1	3.06	GC-NC1	3.67	20	L	2,140		414		2,755
BH-18	2/18/2022	8 - 9	< 16.0		< 0.050		< 0.050		0.802	GC-NC1	3.9	GC-NC1	4.7	22	3	2,190		431		2,844
DI1-10	2/10/2022	10 - 11	< 16.0		< 0.050		< 0.050		0.598	GC-NC1	2.68	GC-NC1	3.28	18	2	2,100		418		2,700
		12 - 13	< 16.0		< 0.050		< 0.050		< 0.050		0.194		< 0.300	23	3	340		46		409
		14 - 15	< 16.0		< 0.200		4.06		13.3		27.6		44.9	36	5	2,590		496	Ш	3,452
		19 - 20	< 16.0		< 0.500		8.44		20.9		37.9		67.2	72	3	3,580		638		4,946
		24 - 25	< 16.0		< 0.050		0.383		1.25		2.48		4.11	58	9	1,000		191		1,250
BH-18A	5/24/2022	29 - 30	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	54		< 10.0		54
511 10/1	3,21,2322	34 - 35	< 16.0		< 0.050		< 0.050		0.067		< 0.150		< 0.300	< 10	.0	87		< 10.0		87
		39 - 40	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	101		13		114
		44 - 45	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	45		< 10.0		45
		49 - 50	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	16		< 10.0		16
BH-19	2/18/2022	6 - 7	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30
2 13	2, 23, 2022	9 - 10	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30
		0 - 1	32		< 0.050		< 0.050		< 0.050		< 0.150	1	< 0.300	< 10	.0	54		< 10.0		54
		2 - 3	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	20		< 10.0		20
BH-20	5/24/2022	4 - 5	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30
2.1.20	5, 2 1, 2022	6 - 7	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30
		9 - 10	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150	1	< 0.300	< 10	.0	< 10.0		< 10.0		<30
		14 - 15	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10	.0	< 10.0		< 10.0		<30

bgs: Below ground surface mg/kg: Milligrams per kilogram

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbons

1: Method SM4500Cl-B GRO: Gasoline Range Organics 2: Method 8021B DRO: Diesel Range Organics

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC). Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.

GC-NC: 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis DRO Diesel range organics and are reported as non-detect GC-NC1: 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis Method 8021B and are biased high with interfering compounds. QM-07: The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS.

SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT ID NRM2017856312 MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

								BTEX	2								TPH ³	
		Sample Depth	Chloride	1	_					=				GRO		DRO	EXT DRO	Total TPH
Sample ID	Sample Date				Benzene	e	Toluene	Ethylben	zene	Total Xyle	nes	Total BTE	Х	C ₆ - C ₁₀		> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg C	mg/kg
Reclamation Require	ments (19.15.29 NM	AC)	600		10							50						100
BH - 13 (2')	7/12/2023	2 - 2.5	16		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		14.3	21.6	35.9
BH - 14 (2')	7/12/2023	2 - 2.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		43.5	37.6	81.1
BH - 15 (2')	7/12/2023	2 - 2.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		52.9	46.4	99.3
BH - 16 (2')	7/12/2023	2 - 2.5	<16		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		13.9	14	27.9
SW - 1	7/11/2023	0.5 - 4.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 2	7/11/2023	0.5 - 3.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 3	7/11/2023	0.5 - 9.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	11.5	11.5
SW - 4	7/11/2023	0.5 - 9.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 5	7/6/2023	0.5 - 4.5	224		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		160	90.5	250.5
300 - 3	7/11/2023	0.5 - 4.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 6	7/6/2023	0.5 - 4.5	288		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		412	186	598
3vv - 0	7/11/2023	0.5 - 4.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 7	7/6/2023	0.5 - 4.0	400		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		165	138	303
3vv - 7	7/11/2023	0.5 - 4.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 8	7/6/2023	0.5 - 4.0	352		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		413	257	670
3vv - 0	7/11/2023	0.5 - 4.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 9	7/6/2023	0.5 - 4.0	240		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		88	120	208
3VV - 9	7/11/2023	0.5 - 4.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 10	7/6/2023	0.5 - 4.5	368		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		157	146	303
300 - 10	7/11/2023	0.5 - 4.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 11	7/6/2023	0.5 - 4.5	16		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		< 10.0		116	130	246
3W - 11	7/11/2023	0.5 - 4.5	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 12	7/12/2023	0.5 - 2.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		18.9	17.6	36.5
SW - 13	7/12/2023	0.5 - 2.0	64		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		41	24.7	65.5
SW - 14	7/12/2023	0.5 - 2.0	64		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		37	23.1	59.7
SW - 15	7/12/2023	0.5 - 2.0	64		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		44	24.8	68.6
SW - 16	7/13/2023	0.5 - 7.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		722	484	1,206
300 - 10	7/17/2023	0.5 - 7.0	80		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		10.2	<10.0	10.2
SW - 17	7/13/2023	0.5 - 7.0	32		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		750	534	1,284
344 - 17	7/17/2023	0.5 - 7.0	112		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		10.4	<10.0	10.4
SW - 18	7/13/2023	0.5 - 7.0	848		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		18.1	<10.0	18.1
24A - TO	7/17/2023	0.5 - 7.0	64		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		10.4	<10.0	10.4
SW - 19	7/13/2023	0.5 - 4.0	384		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		10.6	10.8	21.4
SW - 20	7/13/2023	0.5 - 4.0	400		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30
SW - 21	7/13/2023	0.5 - 9.5	400		< 0.050		< 0.050	< 0.050		< 0.150		< 0.300		<10.0		<10.0	<10.0	<30

SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT ID NRM2017856312

MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

									BTEX ²										TPH ³		
Sample ID	Sample Date	Sample Depth	Chloride	1	Ponzon)	Toluene		Ethylhonzo	, no	Total Vylo	200	Total BTE	v	GRO		DRO		EXT DRC)	Total TPH
Sample ID	Sample Date				Benzene	2	Toluene	:	Ethylbenze	ne	Total Xylei	ies	IOLAIDIE	^	C ₆ - C ₁₀		> C ₁₀ - C ₂₈	8	> C ₂₈ - C ₃	36	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
SW - 22	7/13/2023	0.5 - 4.5	416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		<30

NOTES:

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

GRO: Gasoline Range Organics 1: Method SM4500Cl-B DRO: Diesel Range Organics 2: Method 8021B ORO: Oil Range Organics 3: Method 8015M

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

Gold highlighted cells indicate areas which were overexcavated and re-sampled

SUMMARY OF SOIL ANALYTICAL RESULTS DEEP CONFIRMATION SAMPLING - INCIDENT ID NRM2017856312

MAVERICK PERMIAN, LLC VGEU 02-20 WEST FLOWLINE RELEASE

LEA COUNTY, NEW MEXICO

									BTEX ²										TPH ³		
Comple ID	Samula Data	Sample Depth	Chloride ¹		Воргоро		Toluene		Fabrulla a sa sa		Total Vular		Total BTE		GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Benzene		roiuene	:	Ethylbenze	ene	Total Xyler	ies	TOTALDIE	: X	C ₆ - C ₁₀)	> C ₁₀ - C	28	> C ₂₈ - C ₃	6	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
RRALs (Table I 19.15.	.29.12 NMAC)		10,000		10								50								2,500
BH - 1 (4.5')	7/11/2023	4.5 - 5.0	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 2 (4.5')	7/11/2023	4.5 - 5.0	2,560		<0.050		<0.050		< 0.050		< 0.150		<0.300		<10.0		<10.0		<10.0		<30
BH - 3 (10')	7/11/2023	10.0 - 10.5	2,180		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		463		140		603
BH - 4 (10')	7/11/2023	10.0 - 10.5	784		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		404		168		572
BH - 5 (10')	7/11/2023	10.0 - 10.5	1,650		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		178		74.1		252.1
BH - 6 (5')	7/6/2023	5.0 - 5.5	2,120		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		1,880		414		2,294
BH - 7 (5')	7/6/2023	5.0 - 5.5	1,540		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		1,310		564		1,874
BH - 8 (4.5')	7/6/2023	4.5 - 5.0	464		<0.050		<0.050		< 0.050		< 0.150		<0.300		<10.0		240		186		426
BH - 9 (4.5')	7/6/2023	4.5 - 5.0	1,560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		67.9		100		167.9
BH - 10 (4.5')	7/6/2023	4.5 - 5.0	1,440		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		71.9		81.5		153.4
BH - 11 (5')	7/6/2023	5.0 - 5.5	688		<0.050		<0.050		< 0.050		< 0.150		<0.300		<10.0		621		275		896
BH - 12 (5')	7/6/2023	5.0 - 5.5	128		<0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		1,030		489		1,519
BH - 17 (7.5')	7/13/2023	7.5 - 8.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		181		149		330
BH - 18 (4.5')	7/13/2023	4.5 - 5.0	96		<0.050		< 0.050		< 0.050		<0.150		<0.300		<10.0		266		231		497
BH - 19 (4.5')	7/13/2023	4.5 - 5.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.8		18.4		35.2
BH - 20 (4.5')	7/13/2023	4.5 - 5.0	128		<0.050		<0.050		< 0.050		< 0.150		<0.300		<10.0		242		208		450
SW-23	7/13/2023	5.0 - 9.5	320		<0.050		< 0.050		< 0.050		<0.150		< 0.300		<10.0		69.6		94.2		163.8

NOTES:

bgs: Below ground surface

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Chloride by Method SM4500Cl-B

2: BTEX by Method 8021B

3: TPH by Method 8015M

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

Maverick Permian, LLC August 24, 2023

ATTACHMENT 1: C-141 FORM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nRM2017856312
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

	_	_		
-	ConocoPhillips (Company		217817
Contact Name Ke	lsy Waggaman		Contact To	Telephone 505-577-9071
Contact email Ke	elsy.Waggaman	@ConocoPhillips	S.COMIncident#	# (assigned by OCD)
Contact mailing ad	dress 29 Vacuu	m Complex Lane	, Lovington, N	NM 88260
		Location	of Release S	Source
Latitude <u>32.79611</u>			Lç	Longitude - 103.487222
		(NAD 83 in deci	mal degrees to 5 decir	cimal places)
Site Name VGEU	02-20		Site Type	Off location
Date Release Disco	vered 6/16/20		API# (if app	pplicable) N/A
Unit Letter Sec		Range	Cour	unty
D 32	2 17S	35E	Lea	a
			Volume of 1	Release fic justification for the volumes provided below)
Crude Oil	Volume Rele			Volume Recovered (bbls) 5
Produced Water	Volume Rele	eased (bbls) 56.48	3	Volume Recovered (bbls) 0
		tration of dissolved cheter >10,000 mg/l?	loride in the	☐ Yes ☐ No
Condensate	Volume Rele	eased (bbls)		Volume Recovered (bbls)
☐ Natural Gas	Volume Rele	eased (Mcf)		Volume Recovered (Mcf)
Other (describe)	Volume/Wei	ght Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Release				_1
Flowline	e split			

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Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The release exceeded 25 bbls	of produced water.
, ,		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	was given to Bradford Billings and	•
Waggaman, Cono	coPhillips Environmental Coordinate	ator on 6/17/20.
	Initial Ro	esponse
The responsible		y unless they could create a safety hazard that would result in injury
	, , , , , , , , , , , , , , , , , , , ,	,
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
🛚 Released materials ha	ave been contained via the use of berms or d	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:
Don 10 15 20 9 D (4) NIM	AAC the magnesial mentument commence	amodiation immediately often discovery of a valence. If namodiation
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
		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: Kelsy V	Vaggaman	Title: Environmental Coordinator
Signature: Kulyhl	lozapum	Date:6/26/20 Telephone:505-577-9071
	man@ConocoPhillips.com	Telephone: 505-577-9071
Cinan.	<u> </u>	receptione.
OCD Only		
Received by:		Date:

State of New Mexico

Incident ID nPM2017856312

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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?	100_ (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ 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.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 		
<u> </u>		

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.

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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		
f responsibility for compliance with any other federal, state, or local laws		
_ Title: Principal Program Manager		
Date:May-30-2022		
Telephone: 281-206-5298		
Date:		

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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) 		
Deferred Dequests Only: Each of the following items must be confirmed as next of any necessition of the defendance of the following items must be confirmed as next of any necessition of the defendance of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items must be confirmed as next of any necessition of the following items as next of any necessition of the following items as next of any necessition of the following items as next of the following items are next of the following items as next of the following items as next of the following items as next of the following items are next of the following items as next of the following item		
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.		
Containination does not cause an infinitent risk to numan 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: Sum Manager Date: 10/07/21		
OCD Only		
Received by: Chad Hensley Date:11/15/2021		
Approved		
Signature: Date: 11/15/2021		

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Incident ID	nRM2017856312
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be include	d 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) 		
Deformed Degreets Only: Each of the following items must be confirmed	s part of any request for deferral of remediation	
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 env	ironment, 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: Sam Widmer Title:	Principal Program Manager	
DocuSigned by:	May-30-2022	
	hone:	
OCD Only		
Received by: Date: _		
Approved	☐ Denied ☐ Deferral Approved	
Signature: Date:		

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Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: Each of the following i	tems must be included in the closure report.							
✓ A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC							
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office							
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	nations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.							
Signature: Fully 1	Date:							
email: Bryce.Wagoner@mavresources.com	Telephone: (928) 241-1862							
OCD Only								
Received by:	Date:							
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.								
Closure Approved by: Scott Rodgers	Date:12/07/2023							
Printed Name: _Scott Rodgers	Title: Environmental Specialist Advanced							

Maverick Permian, LLC August 24, 2023

ATTACHMENT 2: SITE CHARACTERIZATION DATA



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

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

		POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
L 14183 POD2		L	LE	3	2	2	31	17S	35E	641304	3629691 🌍	300	227	105	122
L 14183 POD1		L	LE	3	2	2	31	17S	35E	641266	3629667 🌍	341	229	106	123
L 14183 POD3		L	LE	3	2	2	31	17S	35E	641213	3629731 🌍	388	227	104	123
L 03875 S2	R	L	LE			2	31	17S	35E	641131	3629576* 🎒	496	120	95	25
L 03875 S4		L	LE			2	31	17S	35E	641131	3629576*	496	120		
L 03874		L	LE	3	1	2	31	17S	35E	640823	3629678*	780	229	90	139

Average Depth to Water: 100 feet

> Minimum Depth: 90 feet

Maximum Depth: 106 feet

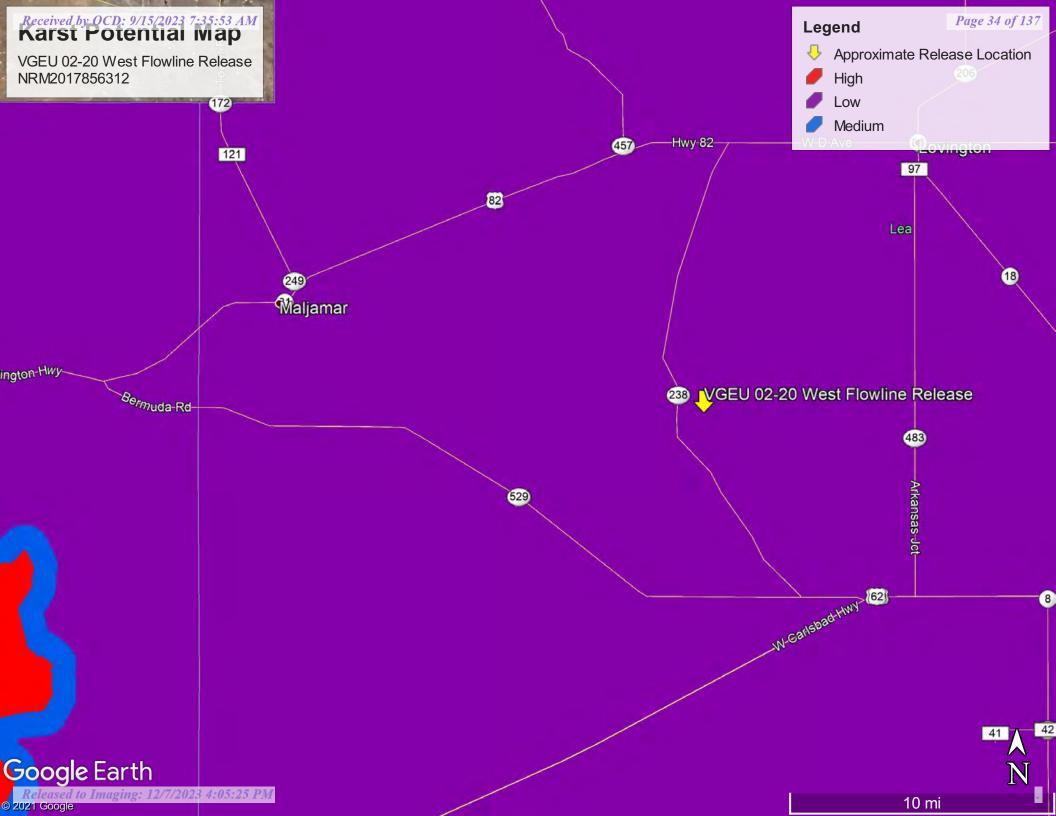
Record Count: 6

UTMNAD83 Radius Search (in meters):

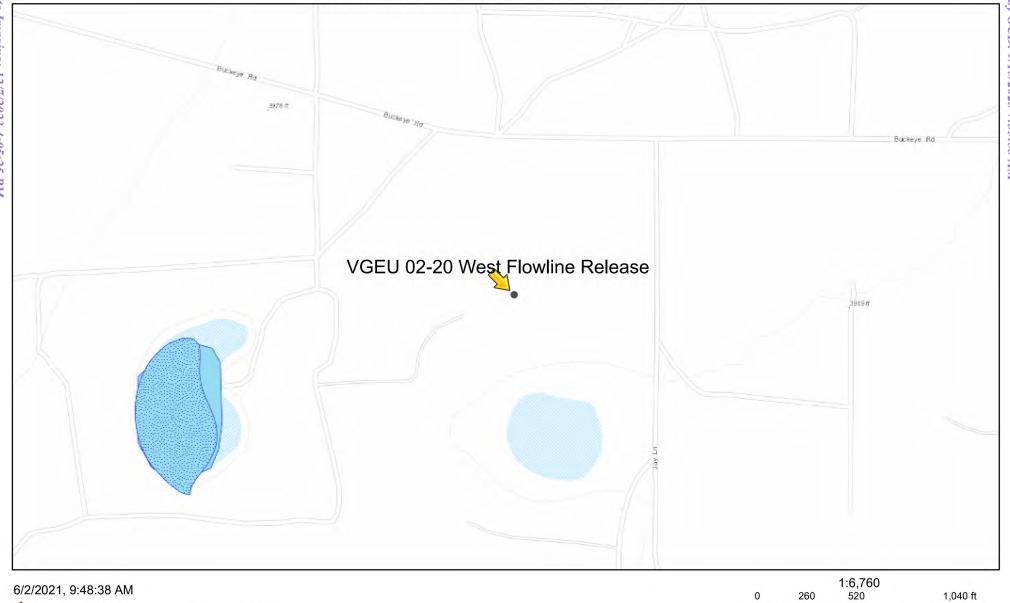
Easting (X): 641601.32 Radius: 800 Northing (Y): 3629736

*UTM location was derived from PLSS - see Help

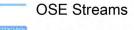
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

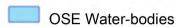


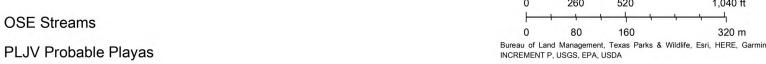
VGEU 02-20 West Flowline Release











Maverick Permian, LLC August 24, 2023

ATTACHMENT 3: LABORATORY ANALYTICAL DATA



July 10, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/07/23 12:55.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023
Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

A ... - I. ... - d D. ... 311 /

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 5 (H233464-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	160	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	90.5	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 6 (H233464-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d 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	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	412	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	186	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	157	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 7 (H233464-03)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	165	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	138	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 8 (H233464-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d 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	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	413	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	257	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	157	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 9 (H233464-05)

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	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	88.0	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	120	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 10 (H233464-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	157	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	146	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 11 (H233464-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/07/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	116	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	130	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 6 (5') (H233464-08)

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	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	1880	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	414	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 7 (5') (H233464-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	1310	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	564	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 8 (4.5') (H233464-10)

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	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	240	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	186	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 9 (4.5') (H233464-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	67.9	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	100	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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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

07/07/2023 Sampling Date: 07/06/2023 Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03070 Shalyn Rodriguez

Analyzed By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 10 (4.5') (H233464-12)

Received:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	71.9	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	81.5	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keine

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03070 Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 11 (5') (H233464-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d 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	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	621	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	275	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	113 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	183 9	% 49.1-14	8						

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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: 07/07/2023 Sampling Date: 07/06/2023

Reported: 07/10/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 12 (5') (H233464-14)

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	07/07/2023	ND	2.08	104	2.00	3.37	
Toluene*	<0.050	0.050	07/07/2023	ND	2.04	102	2.00	3.25	
Ethylbenzene*	<0.050	0.050	07/07/2023	ND	2.19	109	2.00	4.01	
Total Xylenes*	<0.150	0.150	07/07/2023	ND	6.58	110	6.00	3.76	
Total BTEX	<0.300	0.300	07/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/07/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d 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	07/07/2023	ND	205	102	200	1.91	
DRO >C10-C28*	1030	10.0	07/07/2023	ND	197	98.5	200	1.61	
EXT DRO >C28-C36	489	10.0	07/07/2023	ND					
Surrogate: 1-Chlorooctane	111 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	186	% 49 1-14	8						

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Celey D. Keine



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Released to Imaging: 12/7/2023 4:05:25

Released to Imaging: 12/7/2023 4:05:25 PM



July 13, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 8:00.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023
Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 1 (4.5') (H233542-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 2 (4.5') (H233542-02)

BTEX 8021B

	<u> </u>			,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.84	92.0	2.00	6.95	
Toluene*	<0.050	0.050	07/12/2023	ND	1.90	95.1	2.00	7.35	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.93	96.3	2.00	7.74	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.74	95.7	6.00	8.47	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	QM-07
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDIAND TV 70704

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 3 (10') (H233542-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2180	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	463	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	140	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03070 Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 4 (10') (H233542-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	401	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	168	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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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: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 5 (10') (H233542-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	178	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	74.1	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	'8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 1 (H233542-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	60.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDIAND TV 70701

MIDLAND TX, 79701 Fax To: (432) 68

Fax To: (432) 682-3946

ma/ka

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 2 (H233542-07)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 3 (H233542-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	11.5	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keens



Analytical Results For:

TETRA TECH
CHUCK TERHUNE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 4 (H233542-09)

RTFY 8021R

BIEX 8021B	mg/	кg	Апанухе	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 5 (H233542-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	54.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03070 Sample Received By:

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 6 (H233542-11)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
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	07/12/2023	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	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	57.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.7	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 7 (H233542-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	50.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.4	% 49.1-14	8						

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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: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03070 Sample Received By:

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 8 (H233542-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
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	07/12/2023	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	07/13/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	70.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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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: 07/12/2023 Sampling Date: 07/11/2023 Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03070 Sample Received By:

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 9 (H233542-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
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	07/12/2023	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	07/13/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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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: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C-MD-03070 Sample Received By:

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 10 (H233542-15)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
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	07/12/2023	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	07/13/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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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: 07/12/2023 Sampling Date: 07/11/2023

Reported: 07/13/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 11 (H233542-16)

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.82	91.0	2.00	0.314	
Toluene*	<0.050	0.050	07/12/2023	ND	1.81	90.4	2.00	1.01	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.79	89.4	2.00	0.0992	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.44	90.6	6.00	0.976	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
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	07/12/2023	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	07/13/2023	ND	190	95.0	200	5.30	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	52.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.9	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

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

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



July 14, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:10.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyand By 14/

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 13 (2') (H233595-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
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	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	14.3	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	21.6	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celeg D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 14 (2') (H233595-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	43.5	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	37.6	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03070 Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 15 (2') (H233595-03)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
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	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	52.9	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	46.4	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 16 (2') (H233595-04)

BTEX 8021B	mg	mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
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	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	13.9	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	14.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	'8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STRE

901~WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 12 (H233595-05)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	< 0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	< 0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	18.9	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	17.6	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C-MD-03070 Sample Received By:

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 13 (H233595-06)

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	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	40.8	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	24.7	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	74.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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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: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 14 (H233595-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	36.6	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	23.1	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	68.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STRE

 $901\ \mathsf{WEST}\ \mathsf{WALL}\ \mathsf{STREET}$, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/12/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 15 (H233595-08)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	219	109	200	0.378	
DRO >C10-C28*	43.8	10.0	07/14/2023	ND	223	112	200	3.63	
EXT DRO >C28-C36	24.8	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

recovery

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Released to Imaging: 12/7/2023 4:05:25



July 14, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:10.

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

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyand By 14/

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 17 (7.5) (H233596-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	181	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	149	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C-MD-03070

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 16 (H233596-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	6 71.5-13	4						
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	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	722	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	484	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C-MD-03070

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 17 (H233596-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	71.5-13	4						
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	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	750	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	534	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 9	% 49.1-14	8						

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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: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 18 (H233596-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.11	
Toluene*	<0.050	0.050	07/13/2023	ND	2.02	101	2.00	0.494	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.16	108	2.00	1.05	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.50	108	6.00	0.625	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	217	109	200	3.01	
DRO >C10-C28*	18.1	10.0	07/13/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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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.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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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July 14, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:10.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STRE

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Tamara Oldaker

Analyzed By MC

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 18 (4.5') (H233605-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	07/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	266	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	231	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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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: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-03070

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 19 (4.5') (H233605-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	07/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	16.8	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	18.4	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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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: 07/13/2023 Sampling Date: 07/13/2023

Reported: 07/14/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03070 Tamara Oldaker

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: BH - 20 (4.5') (H233605-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	2.04	102	2.00	0.487	
Toluene*	<0.050	0.050	07/14/2023	ND	2.03	101	2.00	0.818	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	2.00	100	2.00	0.595	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	07/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/14/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	217	109	200	3.01	
DRO >C10-C28*	242	10.0	07/14/2023	ND	193	96.7	200	9.55	
EXT DRO >C28-C36	208	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



July 19, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 16:08.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 07/18/2023 Sampling Date: 07/17/2023
Reported: 07/19/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyand By 14/

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 16 (H233735-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.12	106	2.00	2.12	
Toluene*	<0.050	0.050	07/18/2023	ND	2.09	105	2.00	0.704	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	2.21	111	2.00	0.468	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.61	110	6.00	0.264	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	10.2	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 07/18/2023 Sampling Date: 07/17/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 17 (H233735-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.12	106	2.00	2.12	
Toluene*	<0.050	0.050	07/18/2023	ND	2.09	105	2.00	0.704	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	2.21	111	2.00	0.468	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	6.61	110	6.00	0.264	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	10.4	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

(102) 002 05

ma/ka

Received: 07/18/2023 Sampling Date: 07/17/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 18 (H233735-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.11	105	2.00	0.119	
Toluene*	<0.050	0.050	07/19/2023	ND	2.05	102	2.00	1.79	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.15	108	2.00	2.58	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.47	108	6.00	0.877	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/19/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	200	100	200	6.57	
DRO >C10-C28*	10.4	10.0	07/19/2023	ND	197	98.7	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine



July 24, 2023

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

RE: VGEU 02-20

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 13:04.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682-

Fax To: (432) 682-3946

Received: 07/20/2023 Sampling Date: 07/13/2023
Reported: 07/24/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 19 (H233791-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	10.6	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	10.8	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 07/20/2023 Sampling Date: 07/13/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 20 (H233791-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	80.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 07/20/2023 Sampling Date: 07/13/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 21 (H233791-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.9	% 49.1-14	8						

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Celey D. Keine



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: 07/20/2023 Sampling Date: 07/13/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03070 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: MAVERICK - LEA COUNTY, NM

ma/ka

Sample ID: SW - 22 (H233791-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

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: 07/20/2023 Sampling Date: 07/13/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: VGEU 02-20 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03070 Shalyn Rodriguez

Project Location: MAVERICK - LEA COUNTY, NM

Sample ID: SW - 23 (H233791-05)

BTEX 8021B	mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	69.6	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	94.2	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keine

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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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

TE	Tetra Tech, Inc				Tel	Wall S land, Te (432) x (432)	682-45	9701 559																			Page 8 of
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voice to:	chuck.terhune@tetratech.com											11			Hg:	BH 6						Ш		(see attached list)			
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1233791		SAMPI	LING	MA	TRIX	I		ERVAT		RS	(Y/N)	9	(Ext to	040	Total Metals Ag As Ba Cd Cr Pb Se Hg	Ag As B	TCLP Semi Volatiles		8260B /	GC/MS Semi. Vol. 82/0C/625 PCB's 8082 / 608	3	(SC	Sulfate	General Water Chemistry	Balanc		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2023	_	2						CONTAINERS	RED (8021B	TX1005	8270C	letals /	Volatile	Semi V		Vol.	8082		Spest	9 9	al Wat	Cation		
ONLY)		DATE	TIME	WATER	SOIL	로	HNO3	GE		# CON	FILTERED	$I \times I$		PAH 8	Total N	TCLP Volatiles	TCLP (RCI	GC/MS	BCB's	NORM	PLM (Asbestos)	Chloride	Gener	Anion/C		
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4 SW-2	22	7/13/2023			x			x				х	x										x			Ш	
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Site Remediation Closure Report VGEU 02-20 nRM2017856312 Maverick Permian, LLC August 24, 2023

ATTACHMENT 4: CULTURAL RESOURCE SURVEY COVER PAGE

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 152940	MCRIS Activity No. 152940 Registration								
Lead Agency: New M	exico State Land Office								
Performing Agency:	SWCA Environmental Consultants								
Activity ID:	81415								
Performing Agency R	Leport No: 23-317								
Activity Types:	r Client): Tetra Tech, Inc. ☐ Research Design ✓ Archae	eological Survey/Inventory							
	☐ Architectural Survey/Inventory	☐ Test Excavation ☐ Monitoring							
	☐ Collections/Non-Field Study	☐ Compliance Decision							
	☐ Literature Review Overview	☐ Excavation ☐ Ethnographic Study							
	☐ Resource/Property Visit	☐ Historic Structures Report							
	Other:								

Total Survey Acreage: 2.72

Total Tribal Acreage: 0.00

Total Resources Visited: 0

Site Remediation Closure Report VGEU 02-20 nRM2017856312 Maverick Permian, LLC August 24, 2023

ATTACHMENT 5: NMSLO SEED MIXTURE DETAILS



NRCS

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

Custom Soil Resource Report for Lea County, New Mexico

VGEU 02-20 West Flowline Release



Soil Map

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



MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

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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

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.7	100.0%
Totals for Area of Interest		1.7	100.0%

Map Unit Descriptions

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

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

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

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

Lea County, New Mexico

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

Map Unit Setting

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent Lea and similar soils: 25 percent Minor components: 30 percent

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

Description of Kimbrough

Setting

Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Description of Lea

Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

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

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

NMSLO Seed Mix

Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Galleta grass	Viva, VNS, So.	2.5	${f F}$	
Little bluestem	Cimmaron, Pastura	2.5	${f F}$	
Blue grama	Hachita, Lovington	2.0	D	
Sideoats grama	Vaughn, El Reno	2.0	${f F}$	
Sand dropseed	VNS, Southern	1.0	S	
Forbs:				
Indian blanketflower	VNS, Southern	1.0	D	
Parry penstemon	VNS, Southern	1.0	D	
Blue flax	Appar	1.0	D	
Desert globemallow	VNS, Southern	1.0	D	
Shrubs:				
Fourwing saltbush	VNS, Southern	2.0	D	
Common winterfat	VNS, Southern	1.0	F	
Apache plume	VNS, Southern	0.75	${f F}$	
	Total PLS/acro	e 17.75		

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

- VNS, Southern No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

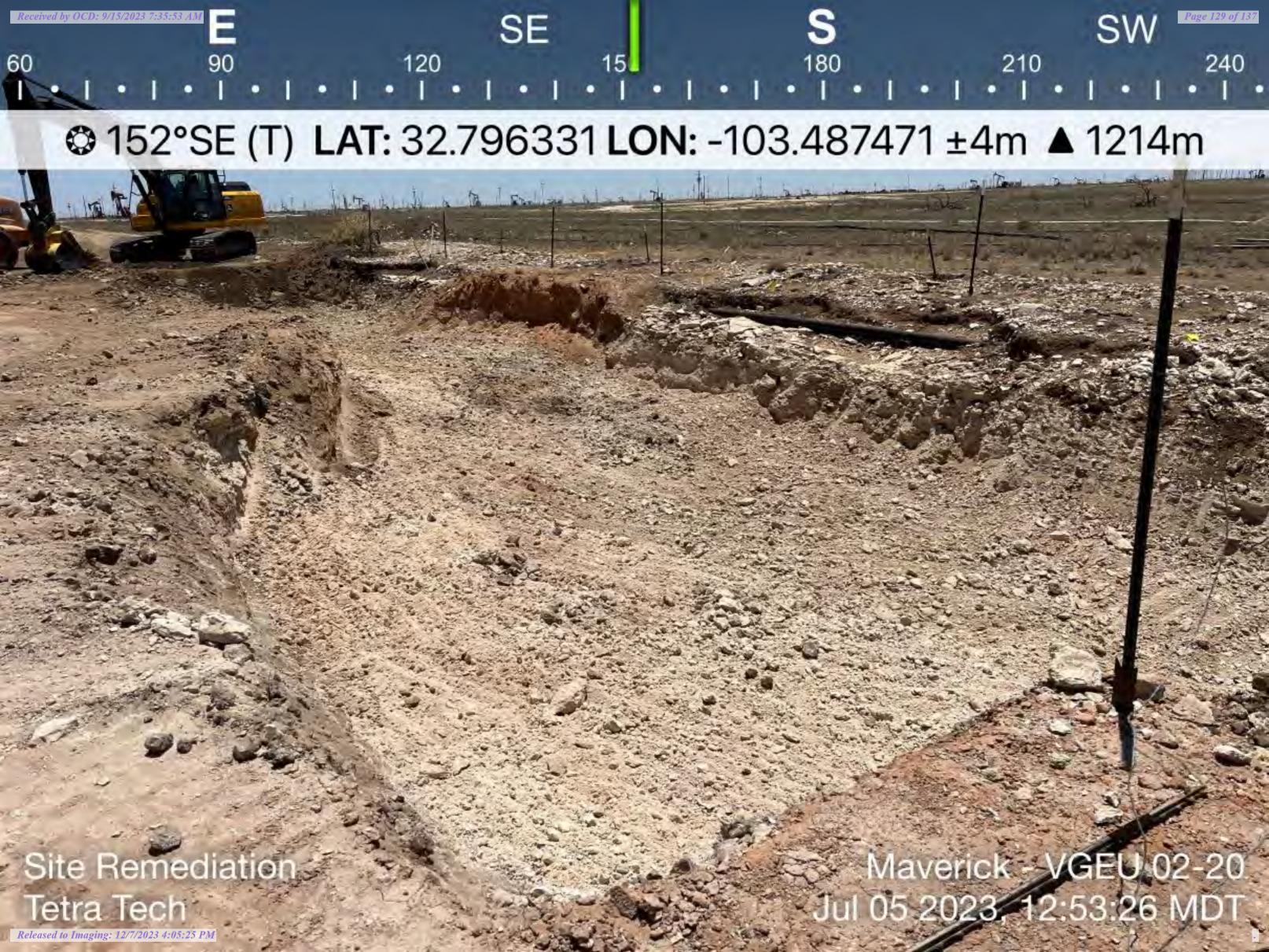


Site Remediation Closure Report VGEU 02-20 nRM2017856312 Maverick Permian, LLC August 24, 2023

ATTACHMENT 6: PHOTOGRAPHIC DOCUMENTATION





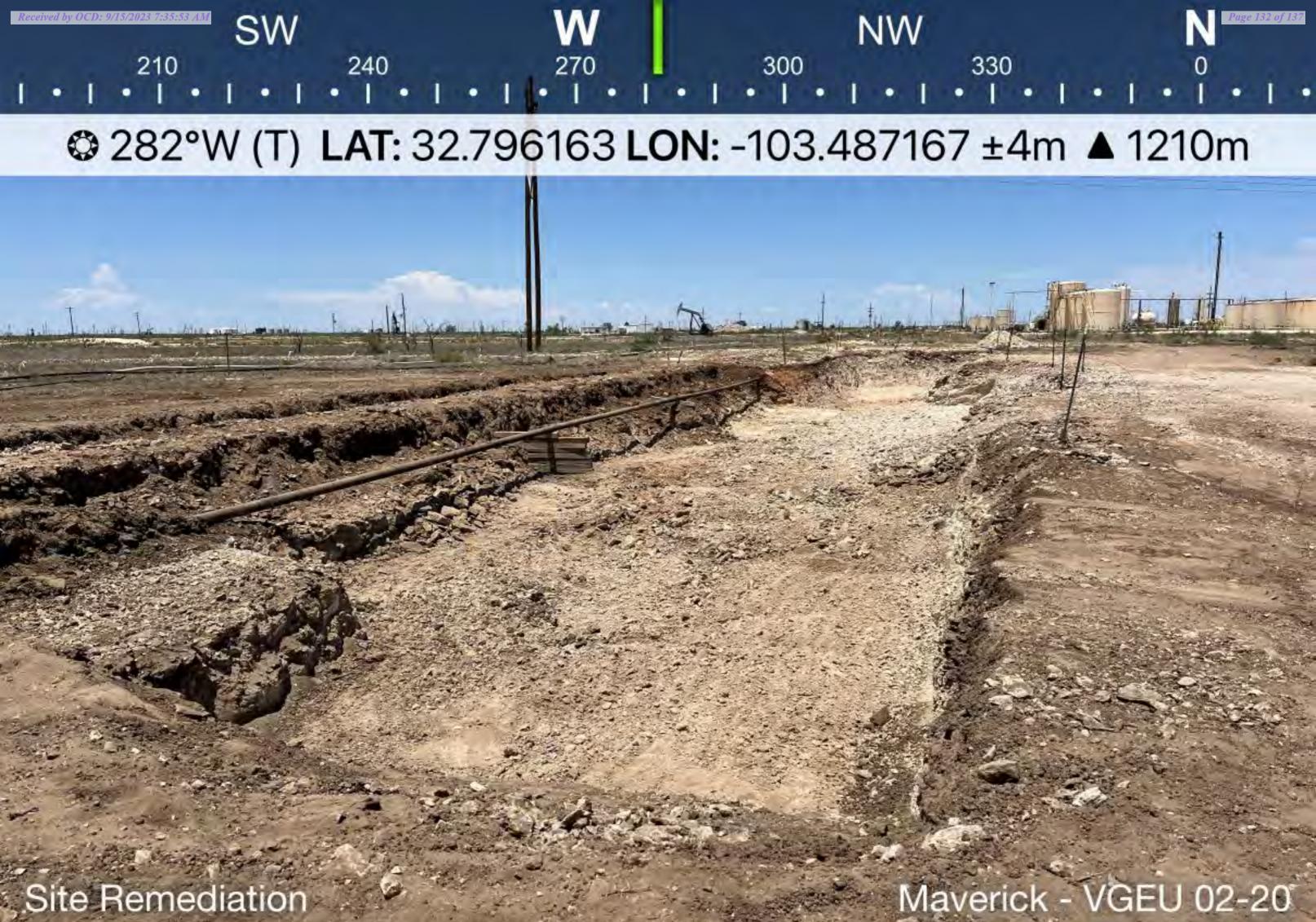




NE 150 30

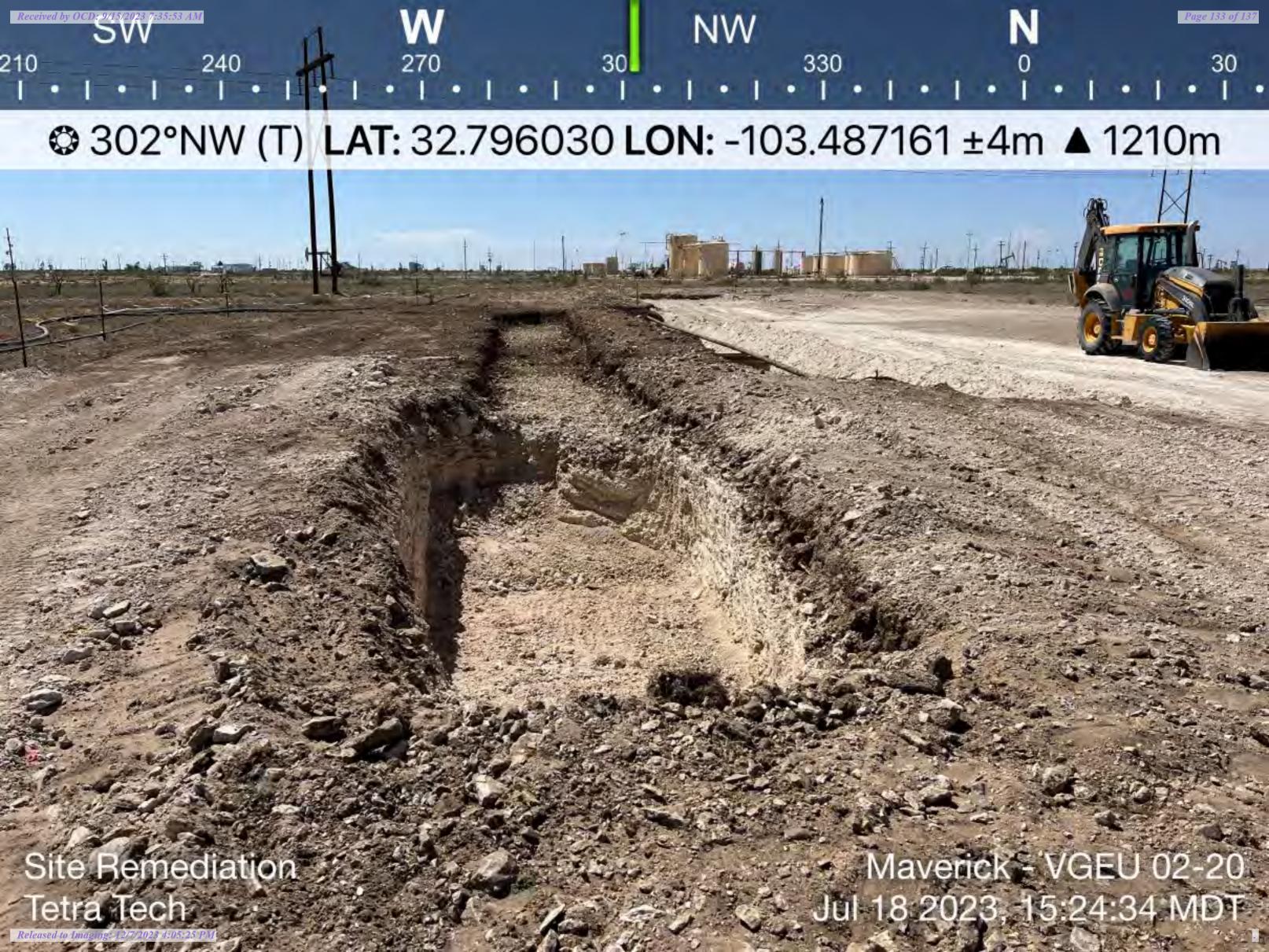
112°E (T) LAT: 32.796379 LON: -103.487732 ±4m ▲ 1214m





Site Remediation
Tetra Tech

Maverick - VGEU 02-20 Jul 12 2023, 12:25:17 MDT









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

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**

CONDITIONS

Action 265540

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	265540
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition Co	Condition Date
scott.rodg	rs None 12	12/7/2023