

August 17, 2022

Bradford Billings Hydrologist/E.Spec.A District 2 Artesia 1220 South St. Francis Drive Oil Conservation Division Santa Fe, NM 87505

Re: **Closure Report** ConocoPhillips **Heritage Concho** Miller B Federal #003 Flowline Release Unit Letter A. Section 23, Township 17 South, Range 32 East Lea County, New Mexico Incident ID# nOY1704058292 1RP-4597

Mr. Billings,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to evaluate a Heritage Concho release and subsequent assessment activities performed at the Miller B Federal #003 Flowline Release site (API No. 30-025-31054). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 23, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.8245583°, -103.7327499°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on February 1, 2017. The C-141 reports that the release was caused by a ruptured poly flowline from the Miller B Federal #003 well due to a buildup of paraffin. Approximately 7 barrels (bbls) of crude oil and 3 bbls of produced water were released in pasture, of which approximately 6 bbls of oil and 1 bbl of produced water were recovered. The release occurred on Bureau of Land Management (BLM) land. The NMOCD approved the initial C-141 on February 2, 2017 and subsequently assigned the release the Incident ID nOY1704058292 and the remediation permit (RP) number 1RP-4597. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

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

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately ½ mile (800 meters) of the site. According to data from three (3) water wells listed in the NMOSE database within approximately 1.86 miles (3,000 meters) of the site, the average depth to

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groundwater is 172 feet below ground surface (bgs), and the minimum depth to groundwater is 130 feet bgs.

The remediation action levels proposed for the site are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. Thus, 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater.

For this release, as the water level information available in the NMOSE database was from a well further than ½ mile away from the Site, ConocoPhillips elected to reference a boring that was drilled to supplement the depth to groundwater determination at another former release Site. A licensed well drilling subcontractor was contracted by Tetra Tech to a drill a groundwater determination borehole at a nearby release site on March 23, 2020. The borehole (BH-4) was installed to a depth of 60 feet bgs at the MCA 123 Injection Line Release site, located approximately 1 mile from the Miller B #3 release Site at coordinates 32.810847°, -103.743217°. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 60 feet bgs. The borehole was plugged with 3/8-inch bentonite chips on March 23, 2020. The site characterization data, including the MCA 123 Injection Line Release BH-4 boring log, are presented in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint 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 chlorides in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	20,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the 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 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL RESPONSE ACTIVITIES AND SITE ASSESSMENT

Following the release, Concho recovered freestanding fluids using a vacuum truck and replaced the ruptured section of the flowline. The release occurred west of the Miller B #003 well pad and migrated across a closed and previously reclaimed 3-cell reserve pit and into the pasture west of the reserve pit. The release footprint encompassed an area of approximately 50 feet by 160 feet, as shown on Figure 3.

On February 22, 2017, Concho personnel were onsite to evaluate and sample the release area. One (1) backhoe trench (T-1) was installed in the release area west of the reclaimed reserve pit area to a total depth of 12 feet bgs. Additionally, four (4) horizontal trenches (North, South, East, and West) were installed outside the reported release footprint to total depths of 2 feet bgs. Selected samples were sent to Xenco Laboratories in Midland, Texas and analyzed for TPH EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The trench locations are shown on Figure 3.

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SUMMARY OF SAMPLING RESULTS AND 2018 WORK PLAN

Analytical results from the 2017 assessment activities are summarized in Table 1. All analytical results associated with the north, south, and east trenches were below the applicable Site RRALs. Analytical results associated with the west trench were above applicable Site reclamation requirements down to 2 feet below the ground surface. Analytical results associated with samples from the T-1 trench location were above applicable Site RRALs for chloride, BTEX, and TPH down to 3 feet below the ground surface.

Tetra Tech prepared a Work Plan dated June 15, 2018 on behalf of Concho for the Site based on the results of the 2017 assessment activities and submitted it to the NMOCD for approval. Based on the analytical results and the release footprint, which migrated across a closed and reclaimed 3-cell reserve pit, Concho proposed to remove the impacted soils in the area of trench (T-1) to an approximate depth of 4 feet below surface. Resampling at the area of the horizontal trench (West) was also proposed to confirm the chloride results detected at 2 feet below surface. If confirmation samples indicated a deeper chloride impact, excavation of this area was proposed to a depth of 3-4 feet below surface and a 20-mil liner was proposed as a cap to prevent vertical migration of the deeper impact.

In addition, excavation of any hydrocarbon impact on top of the closed reserve pit was proposed to address the surficial staining in the area. However, no further evaluation was be performed on the closed reserve pit due to potential chloride impacts present in the closed pit. It was stated that the assessment (chlorides) of the pit would not be representative to the impact encountered in the pasture.

Email correspondence from NMOCD dated July 11, 2018 and correspondence from the BLM dated July 19, 2018 requested additional sampling at the site. In the same email, BLM also identified an additional spill path to the north of the main spill path in the reclaimed reserve pit. Copies of the NMOCD and BLM email correspondence related to the June 15, 2018 Work Plan are presented in Appendix C.

VISUAL SITE INSPECTION

On behalf of ConocoPhillips, Tetra Tech conducted a visual inspection of the release Site on February 22, 2022. The purpose of the inspection was to document current Site conditions and evaluate vegetative growth in the pasture areas west of the pad. The Site is located in the Mescalero Sands region southeast of Maljamar, New Mexico, where the native landscape is composed of dune grasslands and mesquite scrub.

At the time of the inspection, the 3-cell reserve pit had been closed in accordance with 19.15.17.13(H)(3) NMAC. Tetra Tech personnel observed established vegetation in the reclaimed pit area that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels, as indicated by the surrounding landscape. This vegetative stand appears sufficient to control erosion and non-native plant invasion and re-establish wildlife habitat or forage. However, indications of the former release flow path were observed during the visual inspection, most notably in the sandy low-lying area of sample location T-1. Based on the NMOCD and BLM correspondence, the northern extent of the flow path was identified within the reclaimed pit area, as indicated on Figure 3.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

A revised Release Characterization and Remediation Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on March 1, 2022, with fee application payment PO Number U6QRI-220301-C-1410. The Work Plan described the results of the visual inspection and the release assessment activities performed at the site. The Work Plan was approved via email by Mr. Bradford Billings on Monday, March 7, 2022 with the following comments:

 Make sure off-pad to the West, not counting rip in Pit area, accommodates Section 13 mandates, as must the pad at P&A. 500 sq/ft for confirming samples is maximal approved. 120 days is allocated [for] completion of remedial efforts.

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Mr. Billings also executed page 4 of the C-141 form included with the Work Plan. A 60-day extension request was approved by Mr. Billings via email on July 7, 2022, with a closure due date of September 3, 2022. A copy of the NMOCD correspondence is included in Appendix C.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From July 13-22, 2022, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on July 14, 2022, the NMOCD division district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix C.

Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed reclamation requirements/RRALs to demonstrate compliance. Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of five (5) floor sample locations and eighteen (18) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are indicated in Figure 4.

Initial confirmation soil sampling analytical results associated with locations FS-3 and WSW-3 exceeded the reclamation limit of 600 mg/kg for chlorides, and analytical results associated with FS-4 and FS-5 exceeded the reclamation limit of 100 mg/kg for TPH. After these areas were expanded 4 feet to the west and deepened by 1 foot, iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-additional excavation.

Collected confirmation samples to be submitted for analysis were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, New Mexico. The soil samples were analyzed for TPH (GRO, DRO and ORO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D.

Per the approved Work Plan and laboratory analytical results, the impacted areas were excavated to between 3 and 4 feet below pre-release grade. The portion of the release area in the closed reserve pit was scraped to 6 inches bgs per the approved work plan. All final confirmation soil samples (floor and sidewall) were below the respective RRALs and reclamation requirements for chloride, BTEX, and TPH. The results of the July 2022 confirmation sampling event are summarized in Table 3.

All the excavated material was transported offsite for proper disposal. Approximately 408 cubic yards of material were transported to the R360 Halfway facility in Hobbs, New Mexico for disposal. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, the excavated areas were backfilled with clean material to surface grade. Photographs from the excavated areas prior to and immediately following placement of backfill are provided in Appendix E. Due to the number and large file size associated with the waste manifests, they are not included in this report; however, waste manifests can be uploaded to the portal separately upon NMOCD request.

As prescribed in the Work Plan, the backfilled areas were seeded in July 2022 to aid in revegetation. Based on soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

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

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2661.

Sincerely,

Tetra Tech, Inc.

Samantha K. Abbott, P.G.

Project Manager

Christian M, Llull, P.G.

Program Manager

CC.

Mr. Ike Tavarez, RMR - ConocoPhillips

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Release Extent Map

Figure 4 – Remediation Extent and Confirmation Sampling Locations

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment Table 2 – Summary of Analytical Results – Soil Remediation

Appendices:

Appendix A – C-141 Forms

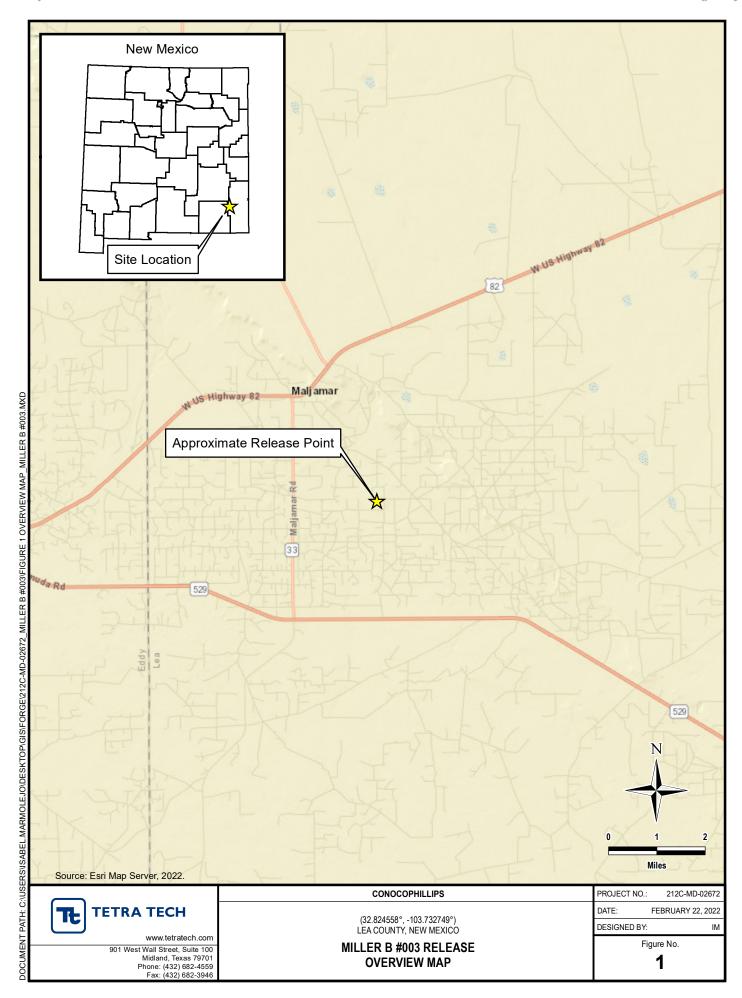
Appendix B – Site Characterization Data

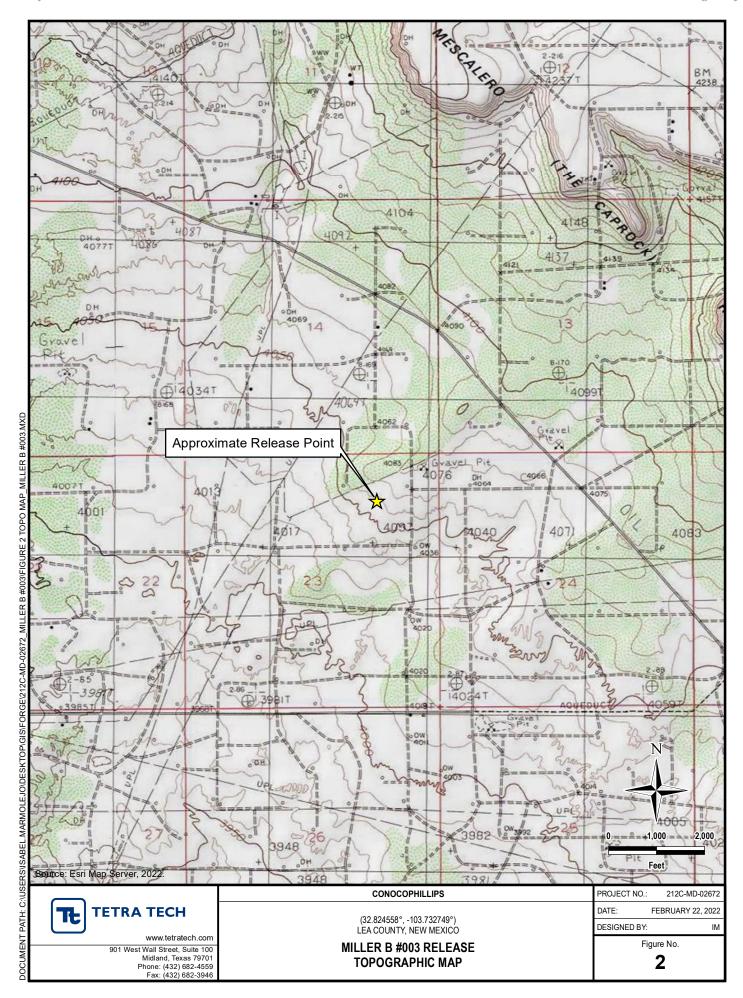
Appendix C – Regulatory Correspondence

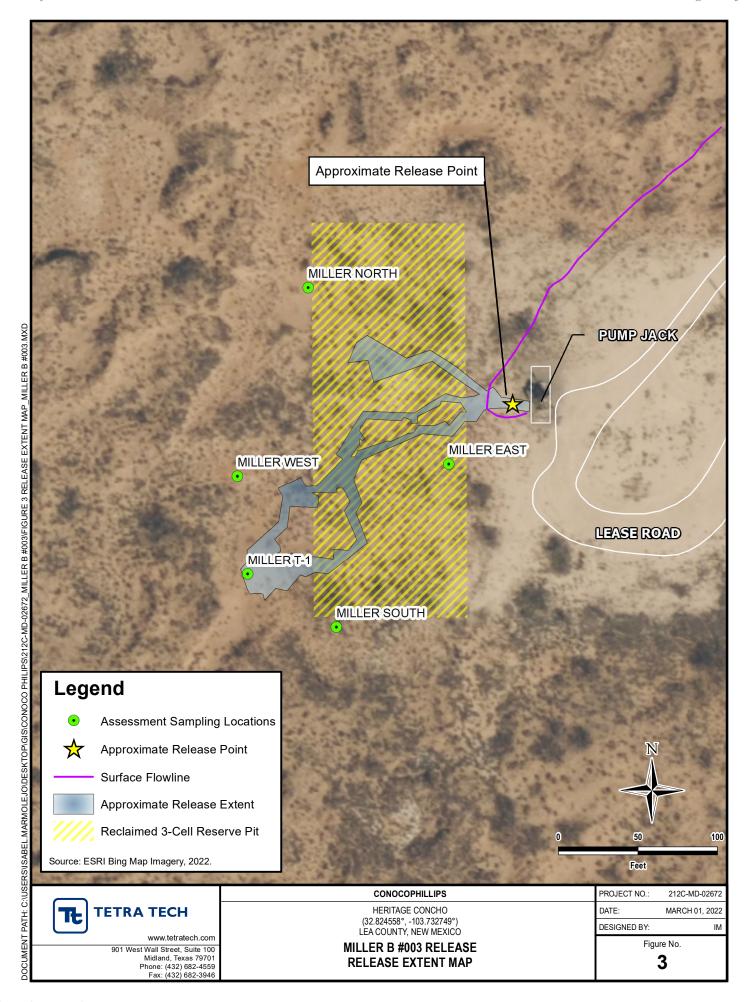
Appendix D – Laboratory Analytical Data

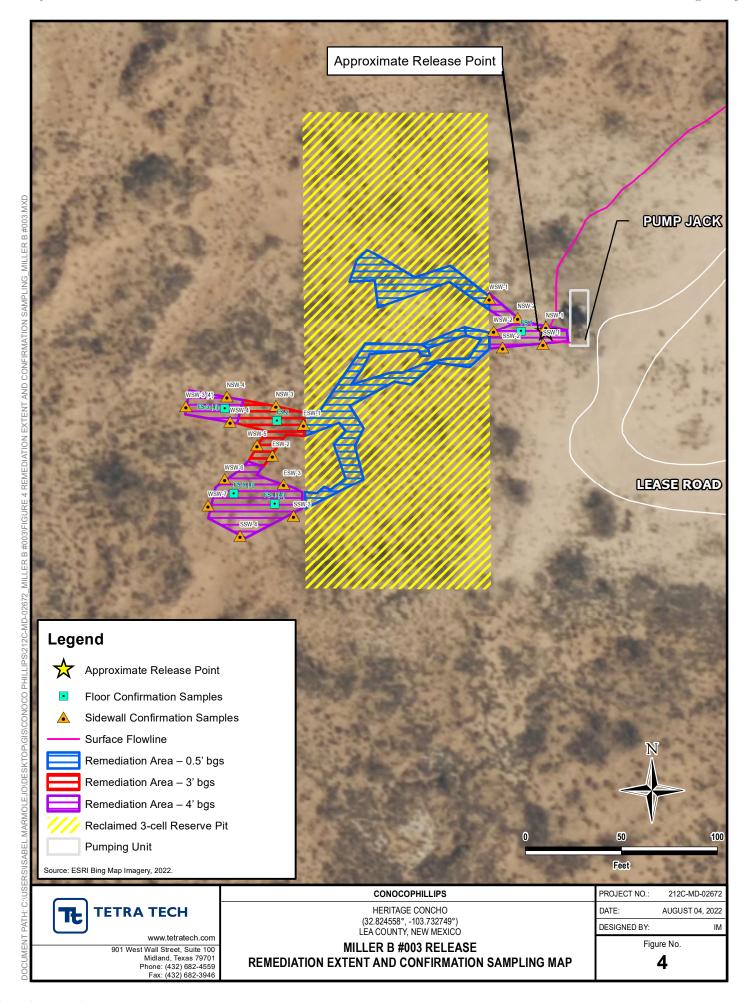
Appendix E – Photographic Documentation

FIGURES









TABLE

TABLE 1 SUMMARY OF ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - 1RP-4957/NOY1704058292 HERITAGE CONCHO MILLER B FEDERAL #003 FLOWLINE RELEASE LEA COUNTY, NM

		Cananda Bandh	a 1							BTEX ²										TP	H ³			
Sample ID	Sample Date	Sample Depth	Chloride ¹	Benzene		Toluene		Ethylbenzen	e	m,p-Xylenes	o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH	
		ft. bgs	mg/kg Q	mg/kg	Q	mg/kg (Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg Q	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg (Q
		SURFACE	505	28.9		168		105		115	49.7		165		467		7,880		23,800		2,270		34,000	
		1	6,480	26.9		190		123		149	56.1		205		545		2,280		3,650		405		6,340	
		2	4,380	20.9		137		89.6		104	46.8		151		398		5,370		8,230		815		14,400	
		3	3,740	28.8		163		120		135	66.1		201		513		5,800		10,900		1,080		17,800	
T-1	2/22/2017	4	245	< 0.00149		< 0.00198		0.00366		0.00660	0.00759		0.0142		0.0179		29.4		168		16.8		214	
1-1	2/22/2017	5	19.5	< 0.00150		< 0.00200		< 0.00200		< 0.00200	< 0.00299		< 0.00200		< 0.00150		< 15.0		< 15.0		< 15.0		< 15.0	
		6	114	N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
		8	191	N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
		10	15.8	N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
		12	13.2	N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
		SURFACE	6.34	< 0.00151		< 0.00202		< 0.00202		< 0.00202	< 0.00302		< 0.00202		< 0.00151		< 15.0		< 15.0		< 15.0	П	< 15.0	
NORTH	2/22/2017	1	< 4.92	< 0.00728		< 0.00971		< 0.00971		< 0.00971	< 0.0146		< 0.00971		< 0.00728		< 14.9		< 14.9		< 14.9		< 14.9	
		2	< 4.89	< 0.00148		< 0.00197		< 0.00197		< 0.00197	< 0.00295		< 0.00197		< 0.00148		< 15.0		< 15.0		< 15.0	\coprod	< 15.0	
		SURFACE	654	< 0.00148		< 0.00198		< 0.00198		< 0.00198	< 0.00296		< 0.00198	T	< 0.00148		< 15.0		19.9		< 15.0	\prod	19.9	
EAST	2/22/2017	1	627	< 0.00152		< 0.00202		< 0.00202		< 0.00202	< 0.00303		< 0.00202		< 0.00152		< 15.0		18.0		< 15.0		18.0	\Box
		2	446	< 0.00151		0.00223		< 0.00201		0.00262	< 0.00301		0.00262		0.00485		< 15.0		< 15.0		< 15.0	\coprod	< 15.0	
		SURFACE	7.04	< 0.00150		< 0.00200	Т	< 0.00200		< 0.00200	< 0.00301		< 0.00200		< 0.00150	П	< 15.0		< 15.0		< 15.0	\prod	< 15.0	٦
SOUTH	2/22/2017	1	< 4.96	< 0.00150		< 0.00200		< 0.00200		< 0.00200	< 0.00299		< 0.00200		< 0.00150		< 15.0		< 15.0		< 15.0		< 15.0	П
		2	< 4.90	< 0.00149		< 0.00198		< 0.00198		< 0.00198	< 0.00298		< 0.00198		< 0.00149		< 15.0		< 15.0		< 15.0	Ш	< 15.0	
		SURFACE	6.94	0.00152		0.00330		< 0.00203		< 0.00203	< 0.00304		< 0.00203		0.00482		< 15.0		< 15.0		< 15.0		< 15.0	
WEST	2/22/2017	1	59.8	< 0.00149		< 0.00199		< 0.00199		< 0.00199	< 0.00299		< 0.00199		< 0.00149		< 15.0		< 15.0		< 15.0		< 15.0	
		2	1,310	0.00168		0.00423		0.00258		0.00316	< 0.00297		0.00316		0.0117		< 15.0		< 15.0		< 15.0		< 15.0	

NOTES:

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor Oil range organics

N/A Sample not analyzed for constituent

Method SW8015 Mod

1 EPA Method 300.0

2 EPA Method 8021B

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

TABLE 2

SUMMARY OF ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - 1RP-4957/NOY1704058292

HERITAGE CONCHO

MILLER B FEDERAL #003 FLOWLINE RELEASE LEA COUNTY, NM

			Field Common	D		BTEX ²											Т	PH ³							
Committee ID	Committee Date	Sample Depth	Field Screen	ning Results		Chloride ¹		Chloride ¹		zene Toluene			Ethylbenzene		Total Xylenes		Total DTEV		GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date		Chloride	PID			Benze	ne	Toluene		lotai B	Total BTEX					10	> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO			
		ft. bgs	pp	m	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		
FS-1	7/14/2022	4	-	-	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		76.6		18.8		95.4		
FS-2	7/14/2022	3	-	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
FS-3	7/14/2022	3	-	-	1,900		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
FS-3 (4')*	7/18/2022	4	-	-	1,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
FS-4	7/14/2022	3	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		92.7		30		123		
FS-4 (4')*	7/18/2022	4	-	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		48.2		< 10.0		48.2		
FS-5	7/14/2022	3	-	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		411		191		602		
FS-5 (4')*	7/18/2022	4	-	-	544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		78.3		35.7		114		
NSW-1	7/14/2022	-	-	-	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
NSW-2	7/14/2022	-	-	-	512		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
NSW-3	7/14/2022	-	-	-	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
NSW-4	7/14/2022	=	-	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
ESW-1	7/14/2022	-	-	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
ESW-2	7/14/2022		-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
ESW-3	7/14/2022	=	-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
SSW-1	7/14/2022	-	-	-	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
SSW-2	7/14/2022	=	-	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
SSW-3	7/14/2022		-	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
SSW-4	7/14/2022	-	-	÷	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-1	7/14/2022	-	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-2	7/14/2022	-	-	-	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-3	7/14/2022	=	-	-	1,250		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-3 (4')*	7/18/2022	=	-	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-4	7/14/2022	=	-	-	496		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-5	7/14/2022	=	-	-	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-6	7/14/2022	=	-	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		
WSW-7	7/14/2022	-	-	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0		

NOTES:

ft. Fe

bgs Below ground surface mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

 $\label{lem:condition} \textbf{Gold highlight represents soil horizons that were removed during deepening of excavation floors.}$

 $Green\ highlight\ represents\ soil\ intervals\ that\ were\ removed\ during\ horizontal\ expansion\ of\ excavation\ sidewalls.$

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ()

QUALIFIERS:

APPENDIX A C-141 Forms

Received by OCD: 8/17/2022 103:22334/AM

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

Aciease I voliticatio	n and Corrective Action
	OPERATOR Initial Report Final Report
Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Miller B #003	Facility Type: Flowline
Surface Owner: Federal Mineral Owner	API No. 30-025-31054
	N OF RELEASE
Unit Letter Section Township Range Feet from the Nort A 23 17S 32E 990	h/South Line Feet from the East/West Line County North 1295 East Lea
Latitude 32.824558	3 Longitude -103.7327499
	E OF RELEASE
Type of Release:	Volume of Release: Volume Recovered:
Oil and Produced Water	7 bbls Oil & 3 bbls PW 6 bbls Oil & 1 bbls PW
Source of Release:	Date and Hour of Occurrence: Date and Hour of Discovery:
Poly Flowline Was Immediate Notice Given?	February 1, 2017 4:00 pm February 1, 2017 4:00 pm If YES, To Whom?
☐ Yes ☐ No ☐ Not Required	
By Whom?	Date and Hour:
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
☐ Yes ⊠ No	
If a Watercourse was Impacted, Describe Fully.*	
	RECEIVED
Describe Cause of Problem and Remedial Action Taken.*	By Olivia Yu at 4:09 pm, Feb 09, 2017
Flowline rupture due to paraffin buildup. The section of flowline was re	
Describe Area Affected and Cleanup Action Taken.*	
	nove all freestanding fluids. Concho will have the spill area sampled to delineate work plan to the NMOCD for approval prior to any significant remediation
any possible impact from the release and we will present a remediation vactivities.	work plan to the NNOCD for approval prior to any significant remediation
	the best of my knowledge and understand that pursuant to NMOCD rules and
	notifications and perform corrective actions for releases which may endanger
	he NMOCD marked as "Final Report" does not relieve the operator of liability
should their operations have failed to adequately investigate and remedia	ate contamination that pose a threat to ground water, surface water, human health
	does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
Signature: Relican Hashell	OIL CONSERVATION DIVISION
S. S	J4 _
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:
Title: Senior HSE Coordinator	Approval Date: 2/9/2017 Expiration Date:
E-mail Address: rhaskell@concho.com	Conditions of Approval:
L-man realess. Indocute Continue on	Conditions of Approval:
Date: February 2, 2017 Phone: 432-683-7443	See attached directive
Attach Additional Sheets If Necessary	
•	1RP-4597 nOY1704058292 pOY1704058468

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _2/2/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4597_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _3/9/2017__. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Received by OCD: 8/17/2022/10:22:34 M State of New Mexico
Page 3 Oil Conservation Division

	PRagel 1906fl 82
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

	T						
What is the shallowest depth to groundwater beneath the area affected by the release?	(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?							
Are the lateral extents of the release within a 100-year floodplain?							
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.							
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							

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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Page 4 Oil Conservation Division

PRage 200 of	82
	Ì

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ocd does not relieve the operator of liability should their operations have the groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
	Deter
Received by:	Date:

Received by OCD: 8/17/202210:22:34 AM State of New Mexico
Page 5 Oil Conservation Division

	PRage 2106fl 82
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Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e 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)						
D.C. I.D. and O.L. E. L. C.L. C.H. and A. C. H. and A. C.						
<u>Deferral Requests Only</u> : Each of the following items must be con	ifirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:	Title:					
Signature: _ A TS						
email:	Telephone:					
OCD Only						
Received by:	Date:					
Approved	Approval					
Signature: Bradford Billings	Date:					

Received by OCD: 8/17/2022 10:22:34 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 22 of 82
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

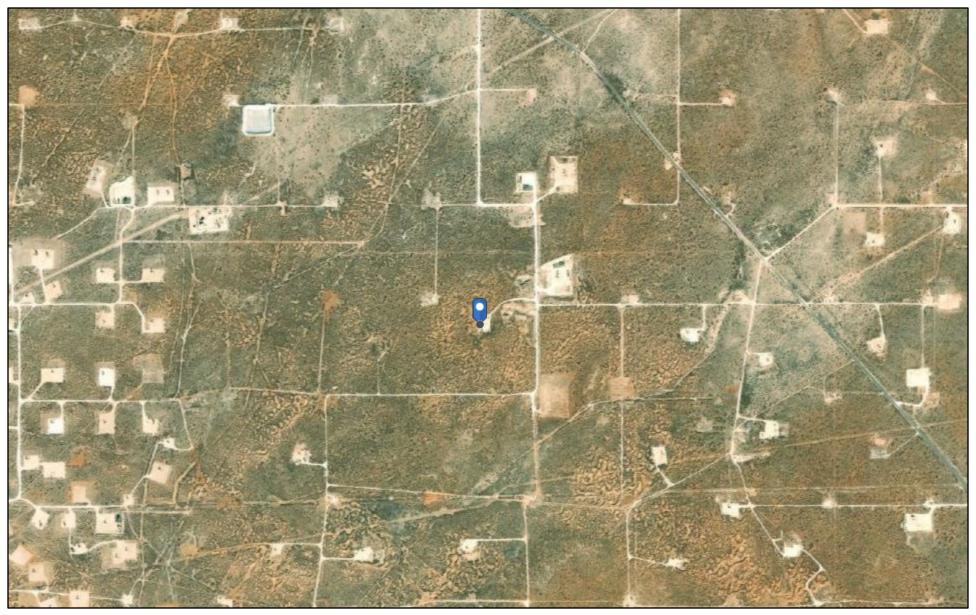
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 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 ODC	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 certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coaccordance.	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Signature: _ /4 75	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Ashley Maxwell	Date:
Printed Name:	

APPENDIX B Site Characterization Data

OCD Water Bodies



1/20/2022, 4:04:38 PM

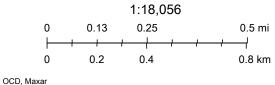
★ OCD District Offices

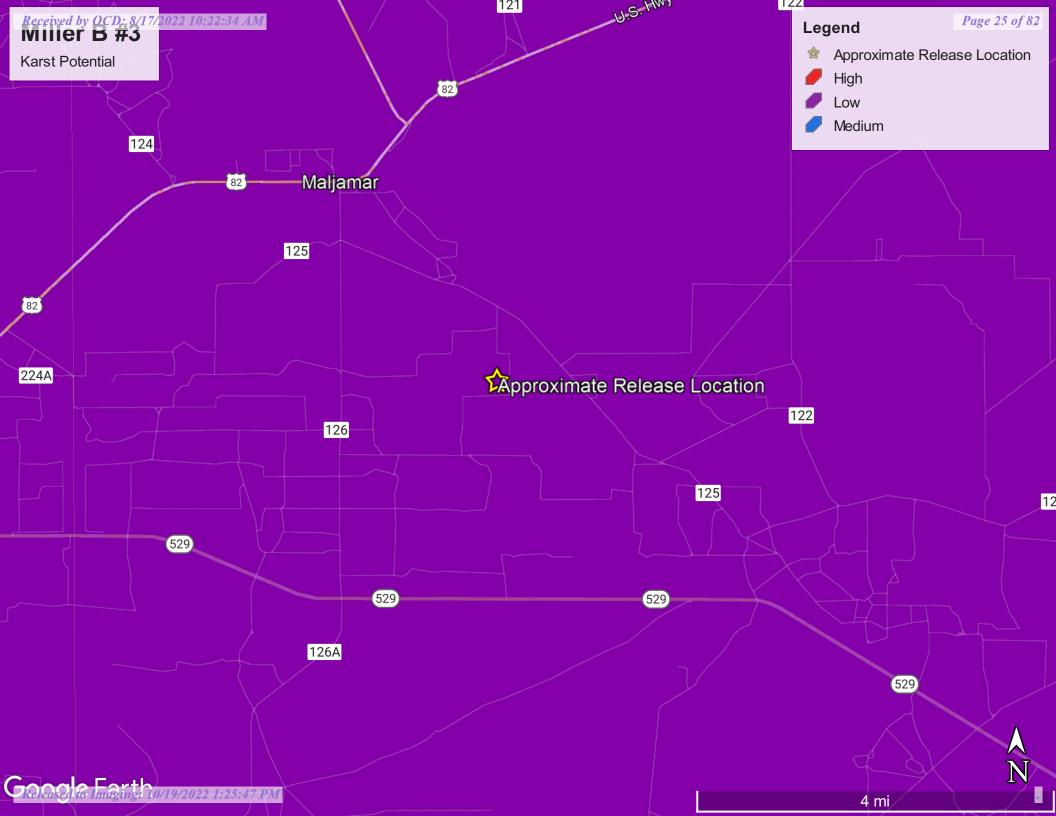
PL.

PLJV Probable Playas

OSE Water-bodies

OSE Streams







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)

POD

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		Sub-		Q	Q	Q								W	ater
POD Number	Code	basin	County				Sec	Tws	Rng	X	Y	DistanceD	epthWellDe	pthWater Co	
RA 11911 POD1		RA	LE	1	3	1	24	17S	32E	619192	3632296	625	35		
<u>RA 11684 POD5</u>		RA	LE	3	1	4	11	17S	32E	618353	3635047	2512	275		
RA 11957 POD1		RA	LE	3	4	1	19	17S	33E	621177	3632200	2581	55		
RA 11684 POD1		RA	LE	1	1	4	11	17S	32E	618216	3635124	2606	275		
RA 11936 POD1		RA	LE	1	4	1	19	17S	33E	621246	3632321	2636	92		
RA 11937 POD1		RA	LE	1	4	1	19	17S	33E	621244	3632281	2638	95		
L 12974 POD1		L	LE	3	4	3	18	17S	33E	621233	3632940	2642	140	130	10
RA 11684 POD2		RA	LE	1	1	4	11	17S	32E	618313	3635248	2716	275		
L 13047 POD1		L	LE				11	17S	32E	618187	3635254*	2739	140		
RA 11684 POD3		RA	LE	3	3	1	11	17S	32E	618262	3635371	2844	275		
<u>L 02770 S2</u>		L	LE	2	2	3	18	17S	33E	621338	3633583*	2908	214	184	30
<u>L 02770 S3</u>		L	LE	2	2	3	18	17S	33E	621338	3633583*	2908	220	202	18
<u>RA 11684 POD4</u>		RA	LE	1	3	2	11	17S	32E	618334	3635521	2985	275		

Average Depth to Water:

172 feet

Minimum Depth:

130 feet

Maximum Depth:

202 feet

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 618619

Northing (Y): 3632549

Radius: 3000

*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.

1/20/22 3:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

212	C-M	D-0	2067	TE TETRA TECH					LOG OF BORING BH-4					Page 1 of 3				
Proje	ect N	lam	e: MC	MCA 123 Injection Line Release							- 1	<u> </u>						
Borehole Location: GPS: 32.810847°, -103.743217°								Surface Elevation: 3973 ft										
Bore	hole	Nu	mber:	BH-4						E	Boreho Diame	ole ter (in.):		Date Started:	3/23/2020	Date F	inished	d: 3/23/2020
	ш		ppm)	(mdd	ERY (%)	TENT (%)	cf)		NDEX			While Drilling			L OBSERVATIO		Ā D	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M.	IATEI	RIAL DESCF	RIPTION		DEPTH (ft)	REMARKS
	$\langle \rangle$	X	208	1.6								-SM- SILT odor, with	TY SA	ND; Brown, caining.	dense, dry, with no	0		BH-4 (0'-1')
_	$\langle \langle$																_	
-	((\bigvee	361	1.7													-	BH-4 (2'-3')
_		\forall	657	1.9								-SM- SIL	TY SA	ND; Tan, der	nse, dry, with no c	odor,	 -7	BH-4 (3'-4')
5_	$\left \right\rangle$	А	2.0	2.1								with no sta	aining		. •	,	_	BH-4 (4'-5')
- -		X	2.03	1.9													_	BH-4 (6'-7')
10		X	1.95	2												_	BH-4 (9'-10')	
		X	9.45	3.1								-SM- SILT	TY SA	ND; Light bro	own, dense, dry, v	vith		BH-4 (14'-15')
_ _ _												,		Ü			_	
20		X	3.75	3.2													_	BH-4 (19'-20')
_																	_	
_ _ _25		X	2.81	1.4													_	BH-4 (24'-25')
Sam Type	pler s:	ון וו	Split Spoon Shelby Bulk Sample Grab Sample	v V V			r T	pera ypes	Muc Rota	tinuou nt Aug sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Notes Anal Surf	ytical samples	s are shown in the is an estimated v	e "Rema alue.	arks" c	column.

212C-MD-02067	TE TETRA	TECH	LOG OF BORING BH-4	Page 2 of 3	
Project Name: M	CA 123 Injection Lii	ne Release			
Borehole Location:	GPS: 32.810847°, -	-103.743217°	Surface Elevation: 3973 ft		
Borehole Number:	BH-4	Borel Diam	hole hole leter (in.): 8 Date Started: 3/23/2020 Date Finished	: 3/23/2020	
E G	ppm) ERY (%) ENT (%)	EX	WATER LEVEL OBSERVATIONS While Drilling □ DRY ft Upon Completion of Drilling □ DI Remarks:	RY_ft	
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm)	<u> </u>	DRY DENSITY (pcf) LIQUID LIMIT DENSITION DEX DENSITION DEX DENSITION DEX DENSITION DEX DENSITION DENSIT	MATERIAL DESCRIPTION (#) HL	REMARKS	
30 1.87 - 30 1.87 - 35 1.67 - 45	1.7 1.8 1.8 1.8 Con Acetate Liner by Vane Shear plee California	Operation Types: Mud Rotary Continuous Flight Auger Wash Wash	-CL- CLAYSTONE; Red, moderately hard, moist, with no odor, with no staining.	BH-4 (29'-30') BH-4 (39'-40') BH-4 (49'-50') olumn.	
Grab Sample Test Pit Wash Rotary Core Barrel Logger: Devin Dominguez Drilling Equipment: Air Rotary Driller: Scarborough Drilling					

212C-MD-02067	TECH		LOG OF BORING BH-4		Page 3 of 3
Project Name: MCA 123 Injection L	ine Release				
Borehole Location: GPS: 32.810847°,		Surface Ele	vation: 3973 ft		
Borehole Number: BH-4	Bo Dia	rehole meter (in.):	Date Started: 3/23/2020	Date Finished	: 3/23/2020
ELD ppm) ppm) ERY (%)	X	While Drilli Remarks:	WATER LEVEL OBSERVATION \overline{Y} DRY ft Upon Completion of Dri		RY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm) UOC FIELD SCREENING (ppm) SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	DRY DENSITY (pcf) LIQUID LIMIT PLASTICITY INDEX MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
55 491 1.4	□ LL PI ▼		Bottom of borehole at 60.0 feet.	- - - - - -	BH-4 (59'-60')
Sampler Split Acetate Liner	Operation Types:	Hand Auge			
Shelby Bulk Sample Grab Sample Test Pit Logger: Devin Dominquez	Mud Rotary Continuous Flight Auger Wash Rotary Drilling Equipment	Air Rotary Direct Push Core Barrel	Analytical samples are shown in the Surface elevation is an estimated val	"Remarks" c lue.	olumn.

APPENDIX C Regulatory Correspondence

From: Price, Henryetta

To: Yu, Olivia, EMNRD

Cc: Gonzales, Clair; Hernandez, Christina, EMNRD; Tucker, Shelly; Rebecca Haskell; Dakota Neel; Sheldon Hitchcock;

DeAnn Grant; Tavarez, Ike

Subject: Re: [EXTERNAL] RE: COG - Miller B#3 Work Plan Approval Request (1RP-4597)

Date: Thursday, July 19, 2018 4:13:04 PM

Good Afternoon.

After visiting the above site today, it is found that the spill path across the pit area will need to be characterized for impact. My suggestions is to do this carefully as we do not want to get into any pit material. There is vegetation present on the pit area which is good news, but vegetation might have been impacted in the immediate area due to possible runoff.

In the work plan, figure 3 shows the path of the spill, whereas aerial photos show a part of the spill that went NW and pooled in a low lying area. I am assuming that area was sampled as well since there is a pad of caliche where the fluids pooled. There is a patch of caliche at sample point T-1 and another mound of caliche where the possible pit area is identified and also coincides with the second path that was not mentioned in the work plan.

Please revise the work plan to include the path north of the main flow path, characterization of the impact over the pit, and background samples will be pulled at least 100 ft. from the impact area.

Please do not hesitate to contact me with any questions or issues.

Henryetta Price

Environmental Protection Specialist Bureau Of Land Management Hprice@blm.gov Phone 575-234-5951 Cell 575-706-2780 Fax 575-234-5927

The **BLM** acceptance/approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Jul 11, 2018 at 7:05 PM, Price, Henryetta < hprice@blm.gov > wrote: Good Evening,

I do not think that delineating the pit area will do any good. I do not think there will be any

significant impact than what is identified on either side of the pit. BLM reclamation objectives may be impacted if we begin to disturb the pit. BLM however, will request that at least the top 2-3 ft. of impacted material is removed (root zone) and the bottom of the pit is capped with an impermeable liner or material to prevent any pit contaminants from significantly impacting reclamation. The excavation will extend 2 ft. past the impact area on the pit.

I would also like to conduct a visual inspection of the excavated area prior to backfill.

Henryetta Price

Environmental Protection Specialist Bureau Of Land Management Hprice@blm.gov

Phone 575-234-5951 Cell 575-706-2780 Fax 575-234-5927

The **BLM** acceptance/approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Jul 11, 2018 at 2:12 PM, Yu. Olivia, EMNRD < Olivia, Yu@state.nm.us> wrote:

on wed, Jul 11, 2010 at 2.12 1 w, 1 u, Onvia, ElvityRD \ <u>onvia.1 u \estate.inii.us</u> > wrote.
Ms. Gonzales:
The portion of the release area for 1RP-4597 that flowed over a reserve pit will need to be characterized/delineated as well.
Thanks,
Olivia

From: Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>

Sent: Friday, June 15, 2018 9:54 AM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us >; Hernandez, Christina, EMNRD

<<u>Christina.Hernandez@state.nm.us</u>>

Cc: Tucker, Shelly <stucker@blm.gov>; hprice@blm.gov; Rebecca Haskell <<u>RHaskell@concho.com</u>>; Dakota Neel <<u>DNeel2@concho.com</u>>; Sheldon Hitchcock <<u>SLHitchcock@concho.com</u>>; DeAnn Grant <<u>agrant@concho.com</u>>; Tavarez, Ike <<u>Ike.Tavarez@tetratech.com</u>>

Subject: COG - Miller B#3 Work Plan Approval Request (1RP-4597)

Good Morning,

Attached is the work plan for the above referenced site located in Lea County, New Mexico. Once approved COG will implement the work plan.

Thank you,

Clair Gonzales

Clair Gonzales | Project Manager Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946 clair.gonzales@tetratech.com

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From: OCDOnline@state.nm.us

To: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 85321

Date: Monday, March 7, 2022 2:32:56 PM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1704058292, with the following conditions:

• Make sure off-pad to the West, not counting rip in Pit area, accommodates Section 13 mandates, as must the pad at P&A. 500 sq/ft for confirming samples is maximal approved. 120 days is allocated foe completion of remedial efforts.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Bradford Billings Hydrologist/E.Spec.A 505-670-6549 bradford.billings@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: <u>Billings, Bradford, EMNRD</u>

To: Abbott, Sam

Subject: RE: [EXTERNAL] Extension Request - nOY1704058292 (Miller B Federal #003)

Date: Thursday, July 7, 2022 9:18:47 AM

Attachments: image001.png

image002.png image003.png image004.png image005.png

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Hello,

Extension request for nOY1704058292 is APROVED until 9/3/2022. Please copy this communication in allied report(s).

Thank you.

Bradford Billings EMNRD/OCD

From: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Sent: Wednesday, July 6, 2022 1:09 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us >; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Velez,

Nelson, EMNRD < Nelson. Velez@state.nm.us >

Subject: Fw: [EXTERNAL] Extension Request - nOY1704058292 (Miller B Federal #003)

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>

Sent: Wednesday, July 6, 2022 12:13 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Cc: Billings, Bradford, EMNRD < <u>Bradford.Billings@state.nm.us</u>>; Tavarez, Ike

<<u>Ike.Tavarez@conocophillips.com</u>>; Llull, Christian <<u>Christian.Llull@tetratech.com</u>>; Poole, Nicholas

< NICHOLAS.POOLE@tetratech.com>

Subject: [EXTERNAL] Extension Request - nOY1704058292 (Miller B Federal #003)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech is requesting a 60-day extension (until September 3, 2022) to complete the remediation and associated closure reporting for the Miller B Federal #003 Flowline Release site (nOY1704058292). Coordinating access agreements with the new leaseholder has led to

slight delays, but agreements are now in place and the proposed remediation work is scheduled to begin in the next two weeks. Notice of final confirmation sampling will be sent at that time.

Please let me know if you have any questions or concerns.

Sam

Samantha Abbott, PG | Project Manager
Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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Please cor	nsider the environment before printing. Read more

From: Abbott, Sam

To: ocd.enviro@state.nm.us

Cc: Llull, Christian; Tavarez, Ike; Poole, Nicholas

RE: Remediation Confirmation Sampling Notification - nOY1704058292 Subject:

Date: Thursday, July 14, 2022 11:42:00 AM

Attachments: image001.png image002.png

image003.png image004.png image005.png

CORRECTION:

Remedial activities began at this site on July 14, 2022. Final confirmation sampling will be conducted on July 18, 2022. I apologize for the error in the original notification.

Thank you,

Sam

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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Please consider the environment before printing. Read more



From: Abbott. Sam

Sent: Thursday, July 14, 2022 11:29 AM

To: ocd.enviro@state.nm.us

Cc: Llull, Christian < Christian.Llull@tetratech.com>; Tavarez, Ike < Ike.Tavarez@conocophillips.com>;

Poole, Nicholas < NICHOLAS.POOLE@tetratech.com>

Subject: Remediation Confirmation Sampling Notification - nOY1704058292

Re: Incident ID (n#) nOY1704058292

To whom it may concern (c/o Bradford Billings, NMOCD),

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling. Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that confirmation sampling will be conducted at this site from July 14 through July 18, 2022.

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Thank you, Sam

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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APPENDIX D Laboratory Analytical Results



July 15, 2022

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: MILLER B #3

Enclosed are the results of analyses for samples received by the laboratory on 07/14/22 13:45.

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



Tamara Oldaker

Sample Received By:

Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil
Project Name: MILLER B #3 Sampling Condition: ** (See Notes)

Project Location: COP - LEA COUNTY, NM

212C-MD-02672

Sample ID: ESW - 1 (H223060-01)

Project Number:

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	64.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	70.4	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: ESW - 2 (H223060-02)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-140	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	69.0	% 43-149							
Surrogate: 1-Chlorooctadecane	73.6	% 42.5-16.	1						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: ESW - 3 (H223060-03)

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	70.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	75.3	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: SSW - 3 (H223060-04)

RTFY 8021R

BIEX 8021B	mg,	^и кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-140	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	72.2	% 43-149							
Surrogate: 1-Chlorooctadecane	77.6	% 42.5-16.	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: SSW - 4 (H223060-05)

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	63.1	% 43-149	1						
Surrogate: 1-Chlorooctadecane	66.6	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 6 (H223060-06)

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2022	ND	416	104	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	66.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	68.4	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 5 (H223060-07)

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	59.5	% 43-149	1						
Surrogate: 1-Chlorooctadecane	62.4	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: WSW - 7 (H223060-08)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/14/2022	ND	2.05	102	2.00	2.30	
<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
<0.300	0.300	07/14/2022	ND					
101 9	% 69.9-14)						
mg/	'kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	07/15/2022	ND	432	108	400	3.77	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	07/14/2022	ND	157	78.5	200	13.7	
<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
<10.0	10.0	07/14/2022	ND					
64.9	% 43-149							
64.1	% 42.5-16	1						
	<0.050 <0.050 <0.050 <0.150 <0.300 101 9 mg/ Result 64.0 mg/ Result <10.0 <10.0 <64.9	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 0.300 TOT % 69.9-140 mg/kg Result Reporting Limit 64.0 16.0 mg/kg Result Reporting Limit <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 3 (H223060-09)

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	07/14/2022	ND	2.05	102	2.00	2.30	
Toluene*	<0.050	0.050	07/14/2022	ND	2.08	104	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.11	106	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.44	107	6.00	2.73	
Total BTEX	<0.300	0.300	07/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/14/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	55.9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	56.5	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: NSW - 4 (H223060-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	69.7	% 43-149							
Surrogate: 1-Chlorooctadecane	73.5	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02672

Project Location: COP - LEA COUNTY, NM

Sample ID: NSW - 3 (H223060-11)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	66.2 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	70.0	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: FS - 2 (H223060-12)

RTFY 8021R

B1EX 8021B	mg,	ky .	Allalyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-140)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	61.3	% 43-149							
Surrogate: 1-Chlorooctadecane	63.9	% 42.5-16.	1						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil
Project Name: MILLER B #3 Sampling Condition: ** (See Notes)

Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: FS - 3 (H223060-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1900	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	57.6	% 43-149							
Surrogate: 1-Chlorooctadecane	58.8	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: 212C-MD-02672 Sample Received By:

Project Location: COP - LEA COUNTY, NM

Sample ID: FS - 4 (H223060-14)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	92.7	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	30.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	64.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	73.2	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: FS - 5 (H223060-15)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	411	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	191	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	66.8	% 43-149	1						
Surrogate: 1-Chlorooctadecane	96.4	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: FS - 1 (H223060-16)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	76.6	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	18.8	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	68.6	% 43-149	1						
Surrogate: 1-Chlorooctadecane	79.7	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C-MD-02672

Project Location: COP - LEA COUNTY, NM

Sample ID: NSW - 1 (H223060-17)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	< 0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	< 0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	74.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	81.1	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: NSW - 2 (H223060-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	59.7	% 43-149	1						
Surrogate: 1-Chlorooctadecane	64.3	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 1 (H223060-19)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	78.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	84.2	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes) Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 2 (H223060-20)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/15/2022	ND	157	78.5	200	13.7	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	164	81.8	200	14.8	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	74.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	80.7	% 42.5-16	1						

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Tamara Oldaker

Sample Received By:

Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil
Project Name: MILLER B #3 Sampling Condition: ** (See Notes)

Project Location: COP - LEA COUNTY, NM

212C-MD-02672

Sample ID: SSW - 2 (H223060-21)

Project Number:

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/14/2022	ND	192	96.0	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	219	109	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	91.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	90.2	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: COP - LEA COUNTY, NM

ma/ka

Sample ID: SSW - 1 (H223060-22)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/14/2022	ND	192	96.0	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	219	109	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	92.3	% 42.5-16	1						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/14/2022 Sampling Date: 07/14/2022

Reported: 07/15/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 4 (H223060-23)

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	07/15/2022	ND	2.13	107	2.00	3.41	
Toluene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	4.26	
Ethylbenzene*	< 0.050	0.050	07/15/2022	ND	2.18	109	2.00	3.39	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.64	111	6.00	3.50	
Total BTEX	<0.300	0.300	07/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/15/2022	ND	432	108	400	3.77	
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	07/14/2022	ND	192	96.0	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	219	109	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					
Surrogate: 1-Chlorooctane	90.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.7	% 42.5-16	1						

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Celeg D. Freene



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.
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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(010) 000-2020 1700	(3/3) 333-24/0			1
Company Name: Carolo Phillips		BILL TO	ANALYSIS REQUEST	
Project Manager: Son Abboth		P.O. #:		
Address:		company: Tetre tech		
City:	State: Zip:	9		_
Phone #:	Fax #:	St.		_
Project #:2/2/-MD-02672	Project Owner:	City:		
Project Name: Miller B #3		State: Zip:		_
1	'n	Phone #:		
Colten	Help	Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	0	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chlorides	
1 E(W-)	×		X X	
2 E/W-3				
5 550-4				
7 WW-6				
8 GS WINT WIW-7				
7 WW-3 10 WW-4				
This is the control of the performance of services hereunder by control of the performance of services have a control of the performance of services hereunder by cardinal services of which are consequent of the performance of services hereunder by Cardinal by label for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and the consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, and the consequental damages, including without limitation, and including the consequental damages, including without limitation, and including the consequental damages, including the consequental damag	is including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 nt shall Cardinal be lable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, including without limitation, business interruptions and several damages.	a. vor, some use minied to the amount plate by received by Cardinal within 30 days after com, iss of use, or loss of profits incurred by client, it based upon any of the above stated reasons.	y ure users to une completion of the applicable completion of the applicable ont. Its abbidiaries, one of therefore.	
	Time: 1/1/1/22 Received By:	R	5 5	
telinquished By:	Date: Received By:	RE	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Corre	Observed Temp. °C 3LS Sample Condition Corrected Temp. °C 20 9 2 Yes 2 Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID #1{3 04 1 ☐ Yes ☐ Yes	
		1		_

Page 26 of 28

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:		BILL TO	SISATUNY	VSIS REQUEST
Project Manager: Sorn Abboth	2			- 1
		Company: Tetra	tech	
City: State:	Zip:	\$.		-
Phone #: Fax #:		Co.		
Project #: 2/22-MD-82672 Project Owner:				
Project Name: MHL & #3		State: Zip:		
1		Phone #:		_
ton Break		Fax #:		
	MATRIX	PRESERV. SAMPLING	ING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chlorides	
17 Msh-3	-×		-X -X -X	
13 8-3				
14 R-4				
16 12				
17 Wsw-1				
18 WW-2				
		1		
LEARS EVUITE: Liability and Damages, Cardinal's liability and clients exclusive remedy for any claim aising whether based in contract or bot, shall be limited to the amount paid by the client for the alyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable rivce. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, littles or successors arising out of or related to the performance of services have been advantaged upon any of the above standard resonce or otherwise.	ready for any claim arising whether based in contract or tort, st shall be deemed white dunless made in worth and receive i, including without limitation, business interruptions, loss of every limitation. The control of the cont	r tort, shall be limited to the amount paid b eceived by Cardinal within 30 days after or so of use, or loss of profits incurred by client based upon any of the above stated to accompany.	y the client for the younge control of the applicable nt. its publicable in the property of th	
telinquished By: Date: MHD:	Received By:	11/10	Verbal Result: ☐ Yes ♥ No Add'l Phone #: All Results are emailed. Please provide Email address:	one #: address:
Elinquished By: Date:	Received By:	Make	Semarks:	of.
Delivered By: (Circle One) Observed Temp. °C ampler - UPS - Bus - Other: Corrected Temp. °C	Sample Condition Cool Intact Cool Intact Yes Type Types	CHECKED BY: (Initials)	Turnaround Time: Standard Backer Standard Correction Factor -0.5°C Corr	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No One Corrected Temp. °C
† Cardinal c	annot accept verbal chan	ges. Please email chang	@cardinal	
	and a social solution of the social of the s	goo. I loade ciliali cilalig	es to celey.Neelle@cal.ullialiabsillil.coll	

Page 27 of 28

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: / Description	BILL TO	ANALYSIS REQUEST
~ (P.O. #:	
	Company: Tetra 7	Tech
City: State: Z		
Phone #: Fax #:	#	<i>H</i>
Project #: 2/2-MD-62672 Project Owner:	City:	
S	State: Zip:	
Project Location: Lee County, MM	Phone #:	
Z	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chloride
21 SSW-1	××	
WW-4	6 X 7/14/22	
TLEASE, NO. 15: Luciumy and Learnages, Judicians labority and clients exclusive terributy for any client arising wheter based in contract or fort, small be limited to the amount plat by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, reparatless of whether such claim is based upon any of the above stated reasons or otherwise.	auam arising whether based in contract or tort, shall be immed to the amount point med waived unliess made in writing and received by Cardinal within 30 days and thout limitation, business interruptions, loss of use, or loss of profits incurred by linal, regardless of whether such claim is based upon any of the above stated to	and by the client for the file of the completion of the applicable y client, its subsidiaries, reasons or otherwise.
Relinquished By: Date: 1/4/12 Time: 345	Received By: MANARA MARKET	Verbal Result: □ Yes □ No Add'i Phone #: All Results are emailed. Please provide Email address: San Abbott Photostals. Con
relinquished by:	veceived by:	REMARAZO
Delivered By: (Circle One) Observed Temp. °C 3(5) Sampler - UPS - Bus - Other: Corrected Temp. °C 30. 9	Sample Condition CHECKED BY: Cool Intact (Initials) Cool Intact (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

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July 19, 2022

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MILLER B #3

Enclosed are the results of analyses for samples received by the laboratory on 07/18/22 16:35.

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 SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/18/2022 Sampling Date: 07/18/2022

Reported: 07/19/2022 Sampling Type: Soil
Project Name: MILLER B #3 Sampling Condition: ** (

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: FS - 3 (4') (H223117-01)

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	07/19/2022	ND	2.06	103	2.00	11.2	
Toluene*	<0.050	0.050	07/19/2022	ND	2.15	107	2.00	12.2	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.65	111	6.00	11.3	
Total BTEX	<0.300	0.300	07/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	07/19/2022	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	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	70.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	78.8	% 42.5-16	1						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/18/2022 Sampling Date: 07/18/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: FS - 4 (4') (H223117-02)

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	07/19/2022	ND	2.06	103	2.00	11.2	
Toluene*	<0.050	0.050	07/19/2022	ND	2.15	107	2.00	12.2	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.65	111	6.00	11.3	
Total BTEX	<0.300	0.300	07/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/19/2022	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	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	48.2	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	71.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	80.3	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/18/2022 Sampling Date: 07/18/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: COP - LEA COUNTY, NM

Sample ID: FS - 5 (4') (H223117-03)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2022	ND	2.06	103	2.00	11.2	
Toluene*	<0.050	0.050	07/19/2022	ND	2.15	107	2.00	12.2	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.65	111	6.00	11.3	
Total BTEX	<0.300	0.300	07/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 69.9-140	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/19/2022	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	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	78.3	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	35.7	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	66.4	% 43-149							
Surrogate: 1-Chlorooctadecane	77.3	% 42.5-16.	1						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/18/2022 Sampling Date: 07/18/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MILLER B #3 Sampling Condition: ** (See Notes)
Project Number: 212C-MD-02672 Sample Received By: Tamara Oldaker

Project Location: COP - LEA COUNTY, NM

Sample ID: WSW - 3 (4') (H223117-04)

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	07/19/2022	ND	2.06	103	2.00	11.2	
Toluene*	<0.050	0.050	07/19/2022	ND	2.15	107	2.00	12.2	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.17	108	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.65	111	6.00	11.3	
Total BTEX	<0.300	0.300	07/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/19/2022	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	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	64.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	72.6	% 42.5-16	1						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326	FAX (5/5) 393-24/6	.76					
Company Name:	60000	Ph:11:5		BILL TO	0.	A	ANALYSIS REQUEST	
Project Manager:	San Ab.	bold "		P.O. #:				
Address:				Company: 7-1	Test			
City:	Mari	State:	Zip:	3	8			
Phone #:		Fax #:		Address: by chail	0:1			
Project #: スね(2121-110-02672	Project Owner:		City:				
Project Name:	Miller B#3	6		State: Zip:				
Project Location:		NN	3	Phone #:	120	à		
Sampler Name:	Miquel A	Flores		Fax #:				
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	٤		
Lab I.D.	Sample I.D.	I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL	DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	DATE	BTEY Chloride		
0-	FS-3(4)		-	41. 41	18/22	- <		
- (X	1) S - S			2018/18	2			
£	WSW-3	(£)	a\ X	2/18/2	12	\		
PLEASE NOTE: Liability and Da	manes Cardinal's liability and	client's exclusive remarks for an	u claim arisina whether head in	position to total shall be librated to the				
analyses. All claims including th service. In no event shall Cardin affiliates or successors arising ou	nose for negligence and any other ral be liable for incidental or conse ut of or related to the performance	her cause whatsoever shall be d nsequental damages, including nce of services hereunder by Cs	eermed waived unless made in w without limitation, business interr irdinal, regardless of whether su	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or glieted to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ys after completion of the applicab ys after completion of the applicab ad by client, its subsidiaries, ated reasons or otherwise.	ble		
Relinquished By	12	Date: 0/27	Received By:	11/11/11	Verbal Result:	☐ Yes ☑ No Ac	Add'l Phone #:	
Relinquished By:	J. J. J.	Time: 35	Received By:	A Whallen	REMARKS:	All results are emailed. Please provide Email address: San, Alboto to de terra tech. co- REMARKS:	Todre Jech. co	
		Time:		,				
Delivered By: (Circle One)		Observed Temp. °C	/ O. O Sample Condition	tact (Initials)	Turnaround Time:	Standard		
Sampler - UPS - Bus - Other		Corrected Temp. °CQ. 4 C		1	Thermometer ID #113 Correction Factor -0.5°	いるりかてよっ	☐ Yes ☐ Yes ☐ No ☐ No	
The state of the s								

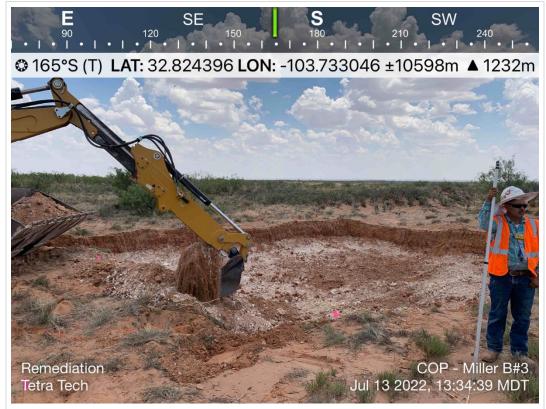
APPENDIX E Photographic Documentation



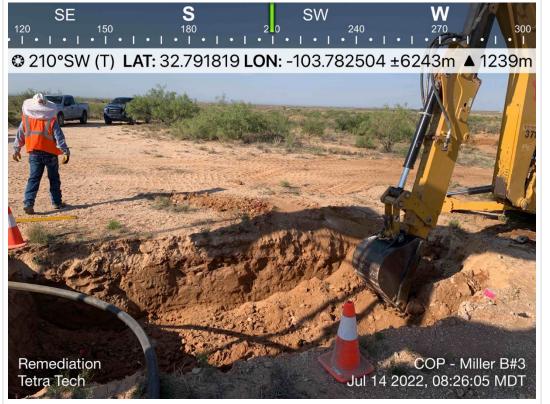
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west of Miller B Federal #003 signage.	1
212C-MD-02672	SITE NAME	Miller B Federal #003 Flowline Release	2/22/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southeast of Miller B Federal #003 excavation.	2
212C-MD-02672	SITE NAME	Miller B Federal #003 Flowline Release	7/13/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of Miller B Federal #003 excavation.	3
212C-MD-02672	SITE NAME	Miller B Federal #003 Flowline Release	7/13/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View south-southwest of Miller B Federal #003 excavation.	4
	SITE NAME	Miller B Federal #003 Flowline Release	7/14/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View south of Miller B Federal #003 excavation.	5
	SITE NAME	Miller B Federal #003 Flowline Release	7/14/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View west of Miller B Federal #003 excavation.	6
	SITE NAME	Miller B Federal #003 Flowline Release	7/14/2022



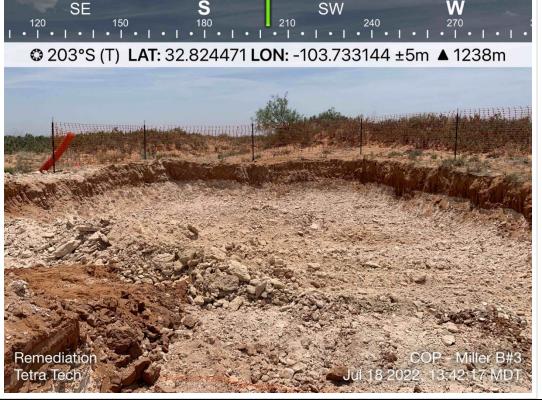
TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View southwest of scraped area over closed reserve pit.	7
	SITE NAME	Miller B Federal #003 Flowline Release	7/15/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View southeast of scraped area over closed reserve pit.	8
	SITE NAME	Miller B Federal #003 Flowline Release	7/15/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View west of WSW-3 expansion area.	9
	SITE NAME	Miller B Federal #003 Flowline Release	7/18/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02672	DESCRIPTION	View south-southwest of deepened excavation in FS-4 and FS-5 area.	10
	SITE NAME	Miller B Federal #003 Flowline Release	7/18/2022

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 134943

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	134943
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/19/2022