

May 30, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Closure Report Coterra Energy, Inc. Tar Heel 19-18-7 Fed Com 18H Eddy County, New Mexico nAPP2206272830

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by Coterra Energy, Inc. (Coterra) to assess a release that occurred at the Tar Heel 19-18-7 Fed Com 18H (Site), Section 19, Township 26 South, Range 30 East, Eddy County, New Mexico. The spill site coordinates are 32.02264°, -103.92471°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site occurred subsequent to a camlock separation while pressure testing a booster pump. Approximately 9 barrels (bbls) of produced water was released onto the location pad and 4 bbls of produced water from the release was recovered by vacuum truck. The release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD) on March 3, 2022. The C-141 is included in **Appendix A**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there is one intermittent stream located approximately 0.2 miles southwest of the horizontal extent of the release. No significant watercourses were identified within 300 feet of the Site. There were no playas, lakebeds, sinkholes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. The site is located in a medium karst area. The NFHL Map, USGS Mapper, and NMOSE data are shown in **Appendix B**.



Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. No Points of Diversion (POD) were identified within a 0.5-mile radius of the Site. Two Points of Diversion (POD) were identified within a 2-mile radius of the Site. C 04561 POD1, was drilled to 105 feet below ground surface (ft bgs) on July 28, 2021, with no measured depth to water recorded, and is located approximately 1.01 miles southwest of the horizontal extent of the release. POD C 02038 was drilled to a total depth of 200 ft bgs on September 5, 1982, with no measured depth to water and is located approximately 1.71 miles southwest of the Site. POD records are presented in **Appendix B**.

POD ID	Distance from Site (Miles)	Date of Data	Resource of Information	Depth of Well	Depth to Water
C 4561 POD 1	1.01	07/28/2021	NMOSE	105'	No Data
C 02038	1.71	09/05/1982	NMOSE	200'	No Data

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine the Recommended Remedial Action Levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and total petroleum hydrocarbons (TPH) in soil. Based on the site characterization, the proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg), 50 mg/kg for total BTEX, 100 mg/kg for TPH, and 600 mg/kg for chloride.

Site Assessment Activities

Tetra Tech conducted site assessment activities on April 24, 2023. A total of four (4) trenches (Trench-1 through Trench-4) were installed to total depths of 4.0 ft bgs in an attempt to assess and vertically delineate the impacted the area. Additionally, a total of four (4) horizontal trenches (H-1 through H-4) were installed to total depths of 1.0 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3.** The samples were field screened using an Extech EC 400 salinity meter to determine the conductivity of the soil in the release impacted area. Additionally, a silver nitrate titration method was utilized to determine the



extent of chloride impacts to the soil at the Site. The delineation field screening results are summarized in **Table 1**.

Referring to Table 1, trenches (T-1 and T-2) indicated chloride concentrations at or above RRALs, with concentrations ranging from 600 mg/kg to 1,200 mg/kg, at depths ranging from 1 ft bgs to 3 ft bgs. The remaining trenches and horizontal test holes exhibited chloride concentrations below 600 mg/kg.

Trenches (Trench-1 through Trench-1) were vertically delineated during delineation assessment activities for Chlorides at depths ranging from ground surface to 4 ft bgs.

Remediation Activities

Based on the results of the soil assessment, Tetra Tech and Coterra's contractor, 4 Elements Oilfield Services, LLC, conducted remediation activities from May 5, 2023, through May 19, 2023. The areas of impact were excavated to a depth ranging from 1 ft bgs to 5.5 ft bgs. The remediation areas and depths are shown on **Figure 4.**

Confirmation bottom hole and sidewall samples were collected every two hundred square feet in a composite 5-point die pattern to ensure a representative sample of the full depth of the sidewalls and the entire floor of the excavation. A total of thirty-four (34) bottom hole samples (BTM-1 through BTM-34) were collected and a total of nine (9) sidewall samples (SW-1 through SW-9) were collected to confirm complete removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico and Permian Basin Environmental Laboratory in Midland, Texas, to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 2, confirmation samples (BTM-6, BTM-12, SW-1, and SW-3), collected on May 5, 2023, and May 11, 2023, reported chloride concentrations of 733 mg/kg, 816 mg/kg, 1000mg/kg, and 640 mg/kg, respectively. The aforementioned samples were recollected on May 11, 2023, and May 19, 2023, after the excavation was extended in the areas of exceedance. All final confirmation samples indicated benzene, BTEX, TPH, and chloride concentrations were below the NMOCD RRALs for the Site

Conclusions

Based on the C-141 (nAPP2229759498) and information provided by Coterra, Tetra Tech performed site characterization, groundwater research, and groundwater gauging to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, based on the site characterization, the proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg), 50 mg/kg for total BTEX, 100 mg/kg for TPH, and 600 mg/kg for chloride.

Following excavation of the impacted soils, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall



samples to ensure the impacted soil was removed according to the specified RRALs. An estimated 1,300 cubic yards of impacted soil was removed and properly disposed of at Milestone Environmental Services in Orla, Texas, and the area was backfilled with clean material to surface grade. The analytical results indicated all final confirmation samples reported below the RRALs for all constituents.

Based on the Site assessment data and remediation activities performed, Coterra requests closure of the release area. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted, TETRA TECH

John Faught, G.I.T. Project Manager

Clair Gonzales, P.G. Senior Project Manager

Figures

Figure 1 - Site Overview Map

Figure 2 - Topographic Map

Figure 3 – Spill Assessment Map

Figure 4 – Excavation Area and Depth Map

Tables

Table 1 – Delineation Analytical Results

Table 2 – Confirmation Analytical Results

Appendices

Appendix A – C-141

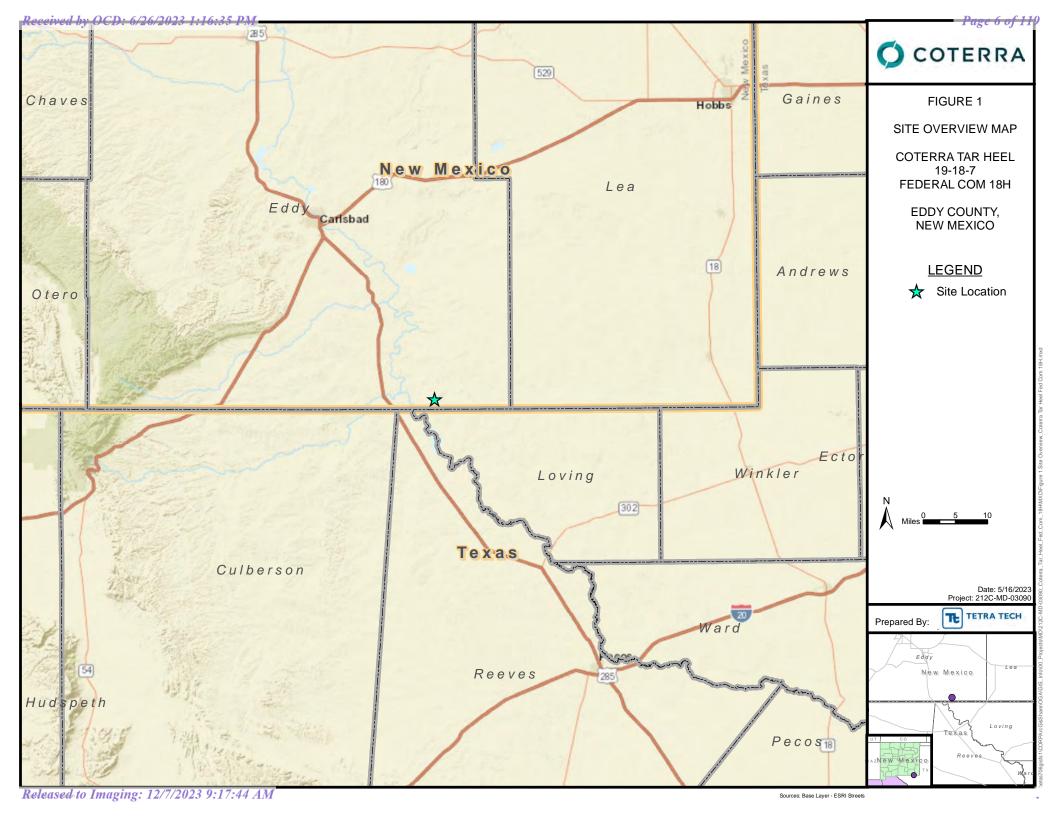
Appendix B – Site Characterization

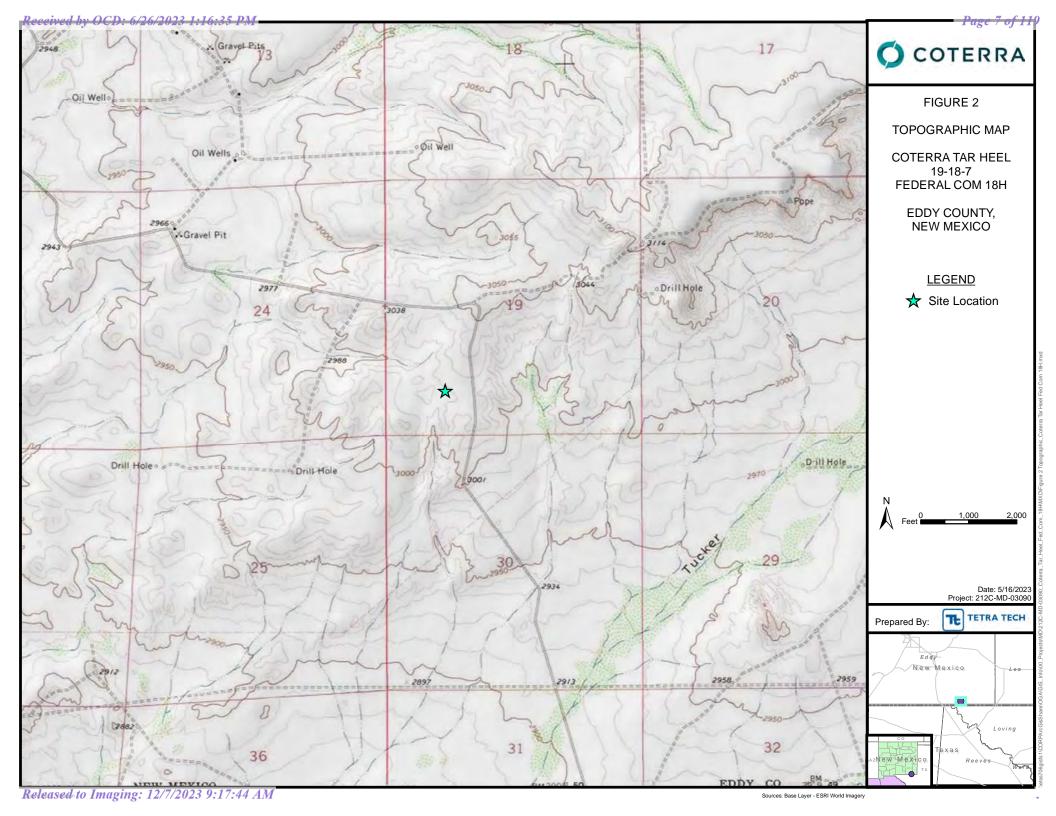
Appendix C – Photographic Documentation

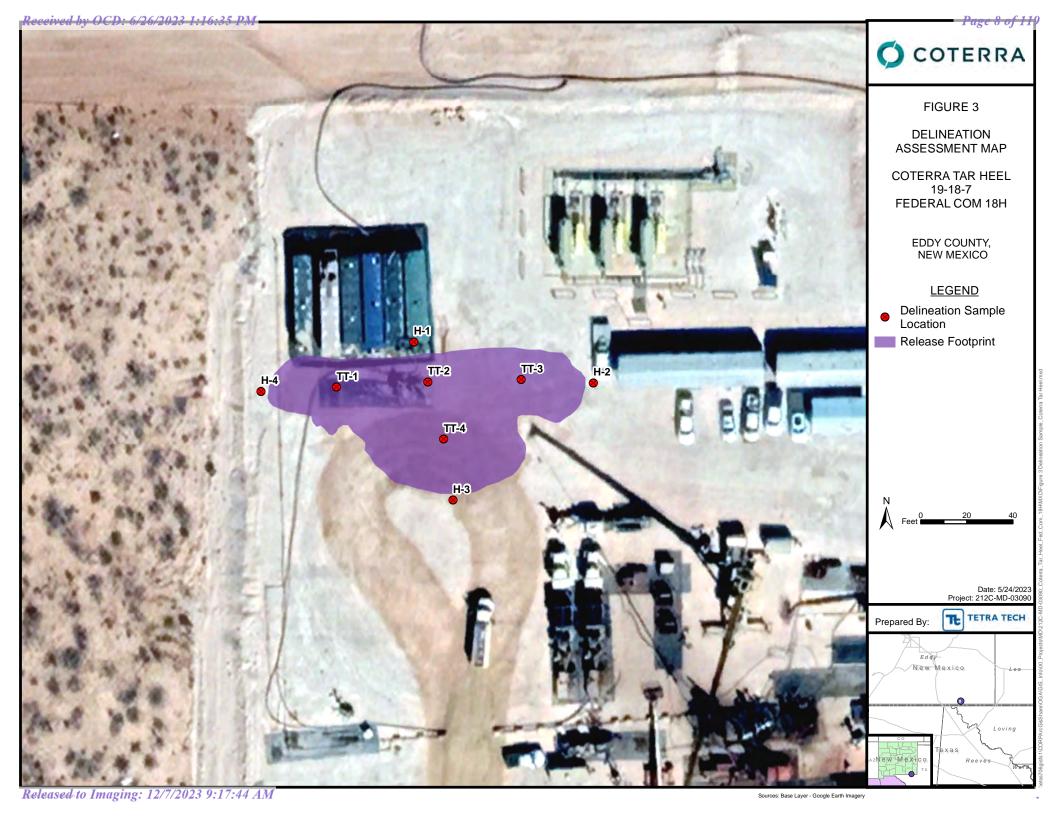
Appendix D – Analytical Laboratory Reports



Figures











Tables

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Table 1 Delineation Field Screening Results Coterra Energy, Inc. Tar Heel 19-18-7 Fed Com 18H Eddy County, New Mexico

						
Sample ID	Sample Date	Excavtion	Soil	Status	Exstick EC 400 Result	ChlorideTitration
•	-	Depth (ft)	In-Situ	Removed	(ppm)	Result (mg/kg)
RRALs						600 mg/kg
	4/24/2023	0-1'	-	Х	1730	980
T-1	4/24/2023	2.0'	-	Х	2120	890
1-1	4/24/2023	3.0'	-	Х	2660	1,200
	4/24/2023	4.0'	-	Х	1290	380
	4/24/2023	0-1'	-	х	450	120
T 0	4/24/2023	2.0'	-	Х	200	580
T-2	4/24/2023	3.0'	-	Х	541	600
	4/24/2023	4.0'	-	Х	1210	440
	4/24/2023	0-1'	_	х	325	180
	4/24/2023	2.0'	_	X	540	320
T-3	4/24/2023	3.0'	Х	-	515	280
	4/24/2023	4.0'	X	-	936	440
	4/24/2023	0-1'	_	х	150	120
	4/24/2023	2.0'	Х	-	348	100
T-4	4/24/2023	3.0'	X	-	826	220
	4/24/2023	4.0'	X	-	780	180
H-1	4/24/2023	0-1.0	х	-	1180	500
H-2	4/24/2023	0-1.0	Х	-	245	240
H-3	4/24/2023	0-1.0	Х	-	570	220
H-4	4/24/2023	0-1.0	Х	-	331	180

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

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Table 2
Confirmation Analytical Results
Coterra Energy
Tar Heel 19-18-7 Federal Com 18H
Eddy County, New Mexico

		Excavtion	Soil	Status		TPH (n	na/ka)				Ethlybenzene			Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	(mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	(mg/kg)
RRALs			<u> </u>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BTM-1	5/11/2023	5'	Х	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00217	<0.00217	502
BTM-2	5/11/2023	5'	Х	-	<25.5	<25.5	<25.5	<25.5	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	75.7
BTM-3	5/11/2023	5.5'	Х	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00217	<0.00217	337
BTM-4	5/11/20223	5'	Х	-	<26.3	<26.3	<26.3	<26.3	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	538
BTM-5	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
BTM-6	5/11/2023 5/19/2023	5' 5.5'	- X	X -	<26.0 <26.3	<26.0 <26.3	<26.0 <26.3	<26.0 <26.3	<0.00104 <0.00105	<0.00104 <0.00105	<0.00104 <0.00105	<0.00208 <0.00211	<0.00208 <0.00211	733 215
BTM-7	5/11/2023	5'	Х	-	<25.5	<25.5	<25.5	<25.5	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	86.1
BTM-8	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BTM-9	5/4/2023	4'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BTM-10	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BTM-11	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
BTM-12	5/4/2023 5/11/2023	4' 4.5'	- X	X -	<10.0 <25.8	<10.0 <25.8	<10.0 <25.8	<10.0 <25.8	<0.050 <0.00103	<0.050 <0.00103	<0.050 <0.00103	<0.150 <0.00206	<0.300 <0.00206	816 449
BTM-13	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
BTM-14	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
BTM-15	5/4/2023	4'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
BTM-16	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BTM-17	5/4/2023	4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
BTM-18	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
BTM-19	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BTM-20	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BTM-21	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
BTM-22	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
BTM-23	5/4/2023	2'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96
BTM-24	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
BTM-25	5/4/2023	2'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BTM-26	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BTM-27	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BTM-28	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
BTM-29	5/4/2023	1'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BTM-30	5/4/2023	1'	х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BTM-31	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128

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Table 2 **Confirmation Analytical Results Coterra Energy** Tar Heel 19-18-7 Federal Com 18H **Eddy County, New Mexico**

Sample ID	Sample Date	Excavtion	Soil	Status		TPH (n	ng/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride
•	•	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total		(3 3)	(mg/kg)		(3 3/	(mg/kg)
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
BTM-32	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
BTM-33	5/4/2023	1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BTM-34	5/4/2023	2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-1	5/11/2023 5/19/2023	0-5.5' 0-5.5'	- X	X -	<27.2 <25.5	<27.2 <25.5	<27.2 <25.5	<27.2 <25.5	<0.00109 <0.00102	<0.00109 <0.00102	<0.00109 <0.00102	<0.00217 <0.00204	<0.00109 <0.00204	1000 224
SW-2	5/11/2023	0-4'	Х	-	<26.6	<26.6	<26.6	<26.6	<0.00106	<0.00106	<0.00106	<0.00213	<0.00213	100
SW-3	5/4/2023 5/11/2023	1-4' 1-4'	- X	X -	10.1	<10.0 <26.6	<10.0 <26.6	<10.0 <26.6	<0.050 <0.00106	<0.050 <0.00106	<0.050 <0.00106	<0.150 <0.00213	<0.300 <0.00213	640 64.8
SW-4	5/4/2023	0-4'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
SW-5	5/4/2023	0-2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-6	5/4/2023	0-2'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-7	5/4/2023	0-1'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-8	5/11/2023	2-4'	Х	-	<26.6	<26.6	<26.6	<26.6	<0.00106	<0.00106	<0.00106	<0.00213	<0.00213	76.8
SW-9	5/11/2023	4-5'	Х	-	<25.5	<25.5	<25.5	<25.5	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	180

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) Guidelines for Remediation of Leaks, Spills, and Releases. All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance



Appendix A

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2206272830
District RP	
Facility ID	fAPP2202685331
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.					OGRID: 215099				
Contact Nam	ne: Laci Luig	7			Contact Telephone: (432) 571-7800				
Contact email: laci.luig@coterra.com					Incident # (assigned by OCD) nAPP2206272830				
Contact mail Midland, TX		600 N Marienfel	d Street, Ste. 600)	1				
			Location	n of R	delease So	ource			
Latitude 32.0	2264		(NAD 83 in a	decimal de	Longitude -	103.92471 nal places)			
Site Name: T	ar Heel 19-1	8-7 Federal Com	18H		Site Type:	Well Pad			
Date Release	Discovered:	3/3/2022			API# (if app	licable)			
Unit Letter	Section	Township	Range		Coun	ity	7		
N	19	26S	30E	Edd	y				
						justification for the	e volumes provided below)		
Crude Oi		Volume Releas				Volume Recovered (bbls)			
Noduced Produced	Water	Volume Releas				Volume Recovered (bbls) 4			
		Is the concentrate produced water	ation of dissolved >10,000 mg/l?	l chloride	e in the	☐ Yes ☐ No			
Condensa	nte	Volume Releas				Volume Reco	overed (bbls)		
Natural G	as	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weigh	t Released (provi)	Volume/Weig	ght Recovered (provide units)			
nipple resulti	re testing a p	plug, the 4" hose ease of 9 barrels	produced water o	nto the v	well pad. A v	vacuum truck w	ek fitting separated from the camlock king was able to recover 4 barrels. An emoved from location.		

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Incident ID	nAPP2206272830
District RP	
Facility ID	fAPP2202685331
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the reason	sponsible party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate not By: Laci Luig To: OCD Enviro, BLM By: Email	otice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?
	Initial	Response
The responsible	party must undertake the following actions immed	liately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health	and the environment.
Released materials ha	ave been contained via the use of berms	or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed	and managed appropriately.
has begun, please attach	a narrative of actions to date. If remed	ce remediation immediately after discovery of a release. If remediation lial efforts have been successfully completed or if the release occurred C), please attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release ment. The acceptance of a C-141 report by t ate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws
Signature: \(\lambda \alpha \cdot \)	dô.	_ Date: 3/3/2022
email: laci.luig@coterra.c	com	Telephone: (432) 208-3035
OCD Only		
Received by: Shelly Wel	ls	Date: 6/26/2023

e of New Mexico

Incident ID	nAPP2206272830
District RP	
Facility ID	fAPP2202685331
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	Unknown (ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ☑ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel ✓ Field data 	ls.					
☐ Data table of soil contaminant concentration data						
Depth to water determination Determination of water assumes and significant waters surely within 1/ miles of the lateral extents of the release.						
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						

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.

✓ Laboratory data including chain of custody

Received by OCD: 6/26/2023 1:16:35 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

	Page 18 0J 11
Incident ID	nAPP2206272830
District RP	

fAPP2202685331

Facility ID Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: ESH Specialist Printed Name: Laci Luig Date: 6/21/2023 Signature: email: laci.luig@coterra.com Telephone: (432) 208-3035 **OCD Only** Received by: Shelly Wells Date: 6/26/2023

Page 19 of 119

Incident ID	nAPP2206272830
District RP	
Facility ID	fAPP2202685331
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.	11 NMAC				
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office				
☑ Laboratory analyses of final sampling (Note: appropriate OD	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 certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in				
Printed Name: Laci Luig	Title: ESH Specialist				
Printed Name: Laci Luig Signature:	Date: 6/21/2023				
email: laci.luig@coterra.com	Telephone: (432) 208-3035				
OCD Only					
Received by: Shelly Wells	Date: <u>6/26/2023</u>				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by:	Date:				
Printed Name:	Title:				
					



Appendix B

Site Characterization

Site Characterization Summary

Site Information:

Coterra Energy Tar Heel 19-18-7 Fed Com 18H Release Eddy County, New Mexico T26S, R30E, Section 19 (32.02264°, -103.92471°)

Site Characterization:

-Medium Karst

-No significant water features within specified distances
-C 4561 POD 1 Groundwater: No Data 1.01 Miles Southwest. (NMOSE, Section 24)
-C 02038 Groundwater: No Data 1.71 Southwest (NMOSE, Section 26)

RRALs:

-600 mg/kg Chlorides -100 mg/kg Total TPH -10 mg/kg Benzene -50 mg/kg Total BTEX

Explanation:

Due to inadequate groundwater information (distance further than ½ mile/data dated >25 years), Most stringent RRALs will be followed unless groundwater determination bore is drilled, and no water is found at depths of at least 55' BGS or greater.

Received by OCD: 6/26/2023 1:16:35 PM

	25 Sc	uth	29	East	
6 40	5	4	3	2	1
	8	9	10 40	11	12
18	17	16	15 60	14	13
19	20	21	22	23	24
30 30	29	28	27	26	25
31	32 115	33	34	35	36

	25 Sc	outh	30	East	
6	5	4	3	2 295	1
7 264	8	9 295	10	11	12 390
18	17	16	15	14	13
19	20	21 265 268	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

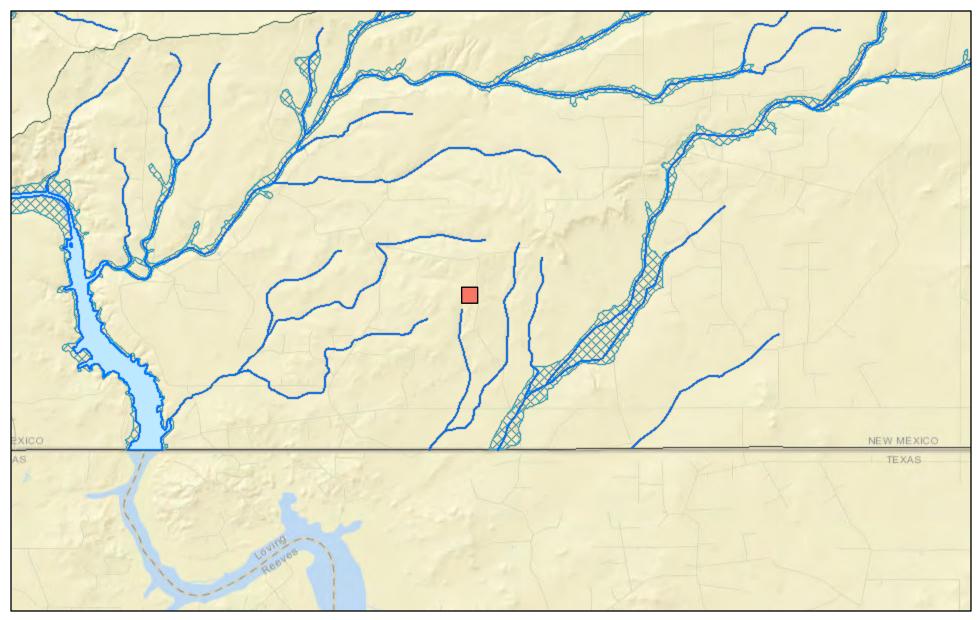
	25 Sc	outh	31	31 East		
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21 390 290	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

	26 Sc	outh	29		
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7	8	9	10	11	12
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49 	20	21	22 57 69	23	24
3 0	29	28	27	26	25
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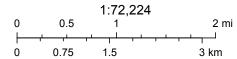
	26 Sc	uth	30		
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7	8 172	9	10	11	12
18	17	16	15	14	13
19 Site	20	21	22 117	23	24 180
30	29	28	27	26	25
31	32	33	34	35	36

	26 Sc	outh	31	East	
6	5	4	3	2	1 335 287
7	8 295 275	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

New Mexico NFHL Data



May 12, 2023



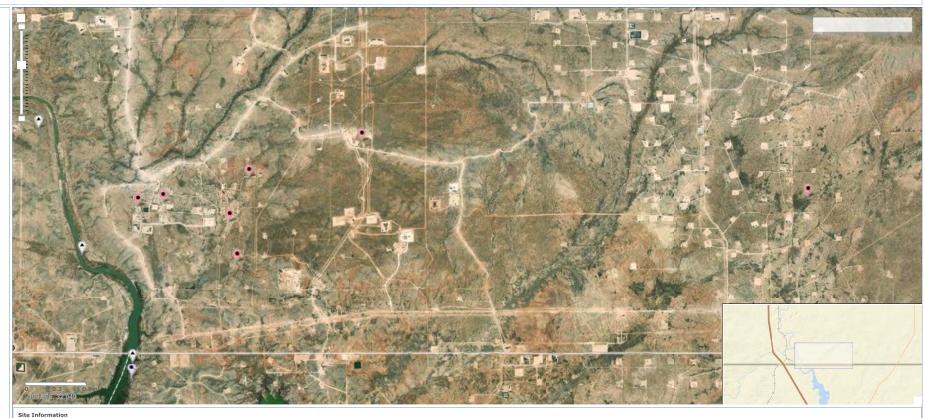
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Released to Imaging: 12/7/2023 9:17:44 AM

National Water Information System: Mapper

USGS Home Contact USGS Search USGS







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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD											·
	Sub-		Q	Q C)						Depth	Depth Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	X	Y	Distance	Well	Water Column
C 04561 POD1	CUB	ED	4	3 3	3 24	26S	29E	599924	3543208 🌍	1631		
C 02038	С	ED	3	2 4	1 26	26S	29E	599204	3541992* 🌍	2752	200	

Average Depth to Water: -

Minimum Depth: -

Maximum Depth: --

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 601537.301 Northing (Y): 3543451.699 Radius: 3200

*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.



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Phone No.: Texas Ins (Atkins Engineer Exp Exp Iller(s)/rig superviso I plugging conclude	Zip code: 79707 ing Associates Inc.) piration Date: 04/30/23 r(s):
ns (Atkins Engineeri Exp	oiration Date: 04/30/23
ns (Atkins Engineeri Exp	oiration Date: 04/30/23
Exp	oiration Date: 04/30/23
Exp	oiration Date: 04/30/23
Exp	oiration Date: 04/30/23
· · · · · · · · · · · · · · · · · · ·	
l plugging conclude	d: 07/27/2021 8/12/202
	7sec 3sec, WGS 84
t below ground leve	el (bgl),
ft bgl	
Engineer:07/20/20	<u>)21</u>
plan? Yes was plugged (attach	If not, please describe additional pages as needed):
	min, 30.8 It below ground leve It bgl Engineer: 07/20/20

Version: September 8, 2009

Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

- 10'-105' Drill Cuttings Approx. 175 gallons 175 gallons Boring MULTIPLY BY AND OBTAIN to this feet x 7.4805 = gallons Augers	Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
Approx. 175 gallons 175 gallons Boring MULTIPLY BY AND OBTAIN Cubic feet x 7.4605 = gallons			Approx. 16 gallons	16 gallons	Augers	
Approx. 175 gallons 175 gallons Boring MULTIPLY BY AND OBTAIN Cubic feet x 7.4605 = gallons	_	10'-105'				
cubic feet x 7.4805 = gallons	-		Approx. 175 gallons	175 gallons	Boring	
cubic feet x 7.4805 = gallons						
cubic feet x 7.4805 = gallons	- -					
cubic feet x 7.4805 = gallons	<u>*</u>					
cubic feet x 7.4805 = gallons						
cubic feet x 7.4805 = gallons	_			·		
cubic feet x 7.4805 = gallons	_					
cubic yards \times 201.97 = gallons			cubic feet x 7.4	4805 = gallons		

III. SIGNATURE:

I. Jackie D. Atkins , say that I am familiar with the ru	les of the Office of the State
Engineer pertaining to the plugging of wells and that each and all of the statements in this Pl	ugging Record and attachments
are true to the best of my knowledge and belief.	
Jack Atkins	08/16/2021

Signature of Well Driller

Version: September 8, 2009

Date

Page 2 of 2



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

C 02038

Q64 Q16 Q4 Sec Tws Rng 26 26S 29E

599204 3541992*

Driller License: 421 **Driller Company:**

GLENN'S WATER WELL SERVICE

Driller Name:

CORKY GLENN

09/01/1982

Drill Finish Date:

09/05/1982

Plug Date:

Log File Date:

Drill Start Date:

09/16/1982

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type:

Casing Size:

Pipe Discharge Size:

Casing Perforations:

200 feet

Estimated Yield: Depth Water:

6.63

Bottom Top

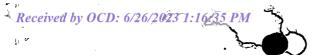
100 140

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.

5/12/23 1:32 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



STATE ENGINEER OFFICE

WELL RECORD

	1 uge 2
	Revised June 197
197	923
10 1000 An's Well	46530

					86 JAN 7	AIU-; Ogr	ers well in	0	
City and	State	Mid	land, Tex	cas					
was drilled	d under Permit	No	038		and Albeated SANTA FE	WEER OFFICE NEW MEXIC	CE O		
ą	1/4 1/4	NE 1/4_	¼ of Sec	tion	Township	R	ange	।	N.M.P.M
		~~		_					
b. I ract	No	of Map No	0	of the					
c. Lot N Subdi	loivision, recorde	of Block No.		of the	ounty.			<u> </u>	<u></u> .
		**	·						
d. X= the		_ feet, Y=		feet, N.I	M. Coordinate S	ystem			Zone ii Grant
Drilling (Contractor	Glenn	's WAter	Well Se	rvice	_ License No. <u>-</u>	WD 42	1	-
resš	Boy 602	Matim.	N.M.	** 8826	7				
ling Began	DOX 032	Con	npleted		Type tools		Size	of hole_	in
	-	•			Type tools				
ation of la	nd surface or _			at well	l is	_ ft. Total dep	th of well_	2001	ft
pleted wel					Depth to water				
ipiotou woi	X						311 O1 O11 _		
				CIPAL WATER	R-BEARING ST	RATA			
From	in Feet To	Thickness in Feet	ı n	escription of V	Water-Bearing Fo	ormation		stimated \ lons per n	
110111	10								
									•.
			,						
•		}	1				1		
	, ,		Section	3. RECORD	OF CASING				
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	Pounds per foot	Threads per in.			T	Type of S	hoe	Perfor From	ations To
(inches)	per foot	1 . 1	Depth i	n Feet Bottom	Length (feet)	Type of S	hoe	From	То
(inches)	per foot	1 . 1	Depth i	n Feet	Length	Type of S	hoe		
(inches)	per foot	1 . 1	Depth i	n Feet Bottom	Length (feet)	Type of S	hoe	From	То
(inches)	per foot 5/8 PVC	per in.	Depth i	Bottom 140	Length (feet)	Type of S	hoe	From	То
(inches)	per foot 5/8 PVC	per in.	Depth i	Bottom 140	Length (feet)		hoe	From	То
(inches) 6	per foot 5/8 PVC	per in.	Depth i Top 1 tion 4. RECOR	Bottom 140 RD OF MUDDI	Length (feet) 140 ING AND CEMPLE (Feet)	ENTING		From 100	То
(inches) 6 Depth From	per foot 5/8 PVC in Feet	Sec Hole Diameter	Depth i Top 1 tion 4. RECOR Sack of Mu	Bottom 140 RD OF MUDDI	Length (feet) 140 ING AND CEMI	ENTING	hoe hod of Place	From 100	То
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(inches) 6 Depth From	per foot 5/8 PVC in Feet	Sec Hole Diameter	Depth in Top 1 tion 4. RECOR Sack of Mu	RD OF MUDDI S Cu d of	Length (feet) 140 ING AND CEMIDIC Feet Cement	ENTING		From 100	То
(inches) 6 Depth From	per foot 5/8 PVC in Feet To	Sec Hole Diameter	Depth in Top 1 tion 4. RECOR Sack of Mu Section	Bottom 140 RD OF MUDDI S Cu d of	Length (feet) 140 ING AND CEMPLE Cement GRECORD	ENTING Met	hod of Plac	100	140
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Depth From gging Control lress gging Methole e Well Plug	per foot 5/8 PVC in Feet To ractor od gged	Sec Hole Diameter	Depth in Top 1 tion 4. RECOR Sack of Mu Section	Bottom 140 RD OF MUDDI S Cu d of	Length (feet) 140 ING AND CEMPLE Cement GRECORD No.	ENTING Met	hod of Plac	From 100 cement	To 140
Depth From gging Control lress gging Methole e Well Plug	per foot 5/8 PVC in Feet To ractor od gged	Sec Hole Diameter	Depth in Top 1. Sack of Mu Section	DOF MUDDI S Cu of	Length (feet) 140 NG AND CEMPORT Cement GRECORD No.	ENTING Met	hod of Plac	From 100 cement	To 140
Depth From gging Contribress gging Metho	per foot 5/8 PVC in Feet To ractor od gged	Sec Hole Diameter	Depth in Top 1 tion 4. RECOR Sack of Mu Section	DOF MUDDI S Cu of	Length (feet) 140 ING AND CEMPLE (Cement) GRECORD No. 1 2	ENTING Met	hod of Plac	From 100 cement	To 140
Depth From gging Contributes gging Methods Well Plug	per foot 5/8 PVC in Feet To ractor od gged	Sec Hole Diameter	Depth in Top 1 Ition 4. RECOR Sack of Mu Section	THO RD OF MUDDI S Cu d of 5. PLUGGIN ntative	Length (feet) 140 ING AND CEMPLE Cement GRECORD No. 1 2 3	Depth Top	hod of Plac	From 100 cement	To 140

Released to Imaging: 12/7/2023 9:17:44 AM

		, , , , , , , , , , , , , , , , , , ,	Section 6. LOG OF HOLE
	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
	5	. T	v:00
<u> </u>	46	41	sand & gravel
46	52	6	ned sand
			100000
<u>-52</u>	5.9	7	ned clay
59	69	10	white lime
69	71	2	ned clay sand 6 gravel
71	78	7	
	ĺ		white line
78 80	98	78	sand 6 gravel white lime
98	728	30	cavaran
128	135	7	
135	ļ. 		red & gray clay
	178	43	limestone
178	2:00	12.	ned clay
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Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGLISHED

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections oction 5, shall be answered as completely curately as possible when any well is drilled, repaired or deepened. When the section 5 need be completed.

Released to Imaging: 12/4/2023 9:17:44 AM



Appendix C

Photographic Documentation

Photo: 1

Description:

View of Remediation Activities – West side of the Site facing east.



Photo: 2

Description:

View of Remediation Activities – Northeast side of the Site facing southwest.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TE
5/4/2023 - 5/19/2023	212C-MD-03090	M. Flores, M. Castrejon	Page 1 of 4	Coterra Energy, Inc.	Tar Heel 19-18-7 Fed Com 18H	TETRA TECH

Photo: 3

Description:

View of Remediation Activities – East side of the Site facing west.



Photo: 4

Description:

View of Remediation Activities – Southeast corner of the Site facing northwest.



Date '	Γaken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
	023 – /2023	212C-MD-03090	M. Flores, M. Castrejon	Page 2 of 4	Coterra Energy, Inc.	Tar Heel 19-18-7 Fed Com 18H	TETRA TECI



Photo: 5

Description:

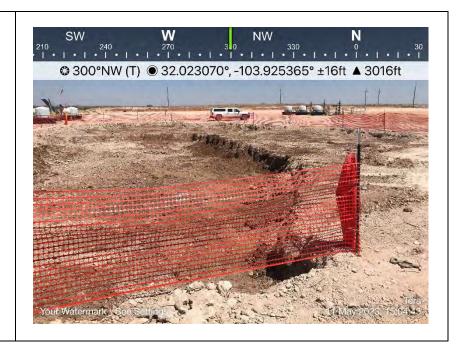
View of Remediation Activities – Southeast side of the Site facing northwest.



Photo: 6

Description:

View of Remediation Activities – West side of the Site facing east.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	TŁ
5/4/2023 - 5/19/2023	212C-MD-03090	M. Flores, M. Castrejon	Page 3 of 4	Coterra Energy, Inc.	Tar Heel 19-18-7 Fed Com 18H	TETRA TECH

Photo: 7

Description:

View of Remediation Activities – West side of the excavation.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	T
5/4/2023 – 5/19/2023	212C-MD-03090	M. Flores, M. Castrejon	Page 4 of 4	Coterra Energy, Inc.	Tar Heel 19-18-7 Fed Com 18H	TETRA



Appendix D

Analytical Laboratory Reports



May 10, 2023

JOHN FAUGHT
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: TAR HEEL 19-18-7

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 16:01.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

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

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: SW - 3 (1-4') (H232255-01)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/08/2023	ND	400	100	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*	10.1	10.0	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: SW - 4 (0-4') (H232255-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: SW - 5 (0-2') (H232255-03)

BTEX 8021B

DIEX GOZID	9/	<u> </u>	Allulyzo	.u by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	70.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: SW - 6 (0-2') (H232255-04)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact 212C - MD - 03090 Sample Received By: Project Number: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: SW - 7 (0-1') (H232255-05)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 5 (4') (H232255-06)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 8 (4') (H232255-07)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 9 (4') (H232255-08)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
JOHN FAUGHT

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 10 (4') (H232255-09)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

mg/kg

Sample ID: BTM - 11 (4') (H232255-10)

BTEX 8021B

	9/	·-9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact 212C - MD - 03090 Project Number: Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 12 (4') (H232255-11)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	61.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

mg/kg

Sample ID: BTM - 13 (4') (H232255-12)

BTEX 8021B

DILX OUZID	iiig/	ng .	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/08/2023	ND	400	100	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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact 212C - MD - 03090 Project Number: Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 14 (4') (H232255-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 15 (4') (H232255-14)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

mg/kg

Sample ID: BTM - 16 (4') (H232255-15)

BTEX 8021B

212/100222	9/	9	7	= , ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Celey & Kreene



Analytical Results For:

TETRA TECH
JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 17 (4') (H232255-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
JOHN FAUGHT
901 WEST WALL STREET , STE 100

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

mg/kg

Sample ID: BTM - 18 (2') (H232255-17)

BTEX 8021B

	9/	·-9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 19 (2') (H232255-18)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 20 (2') (H232255-19)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact 212C - MD - 03090 Project Number: Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 21 (2') (H232255-20)

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	05/09/2023	ND	1.97	98.6	2.00	6.93	
Toluene*	<0.050	0.050	05/09/2023	ND	2.02	101	2.00	7.38	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	1.95	97.3	2.00	7.41	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	6.03	100	6.00	7.29	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	190	95.2	200	6.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	74.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact 212C - MD - 03090 Project Number: Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 22 (2') (H232255-21)

BTEX 8021B	mg/	'kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	66.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 23 (2') (H232255-22)

BTEX 8021B	mg/kg Analyzed		ed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	93.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.89	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT 901 WEST WALL STREET , STE 100

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

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 24 (2') (H232255-23)

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	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 25 (2') (H232255-24)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	59.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 26 (1') (H232255-25)

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	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	<0.300 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
JOHN FAUGHT
901 WEST WALL STE

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

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 27 (1') (H232255-26)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023 ND		1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 % 71.5-13-		4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.0	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
JOHN FAUGHT
901 WEST WALL ST

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

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 28 (1') (H232255-27)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	<0.300 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: COTERRA - EDDY COUNTY, NM

mg/kg

Sample ID: BTM - 29 (1') (H232255-28)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	62.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.0	% 49.1-14	8						

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Analytical Results For:

TETRA TECH

JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 30 (1') (H232255-29)

RTFY 8021R

Result <0.050 <0.050	Reporting Limit 0.050 0.050	Analyzed 05/08/2023	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050			ND	1.00				
	0.050			1.89	94.4	2.00	8.63	
<0.050		05/08/2023	ND	1.94	96.9	2.00	8.85	
~0.030	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
<0.300	0.300	05/08/2023	ND					
obenzene (PID 104 %		4						
mg/	'kg	Analyze	ed By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
256	16.0	05/08/2023	ND	400	100	400	3.92	
mg/	'kg	Analyze	ed By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/08/2023	ND	207	103	200	0.756	
<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
<10.0	10.0	05/08/2023	ND					
64.4	% 48.2-13	4						
67.3	% 49.1-14	8						
	<0.300 104 9 mg/ Result 256 mg/ Result <10.0 <10.0 64.4 9	<0.050 0.050 <0.150 0.150 <0.300 0.300 104	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

TETRA TECH JOHN FAUGHT 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 31 (1') (H232255-30)

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	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	< 0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	58.9 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 32 (1') (H232255-31)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	0.300	05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	D 103 % 71.5-13		4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	50.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	51.3	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 33 (1') (H232255-32)

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	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300 0.300		05/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	66.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH JOHN FAUGHT 901 WEST WALL STREET , STE 100

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

Received: 05/05/2023 Sampling Date: 05/04/2023

Reported: 05/10/2023 Sampling Type: Soil

Project Name: TAR HEEL 19-18-7 Sampling Condition: Cool & Intact
Project Number: 212C - MD - 03090 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: COTERRA - EDDY COUNTY, NM

Sample ID: BTM - 34 (2') (H232255-33)

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	05/08/2023	ND	1.89	94.4	2.00	8.63	
Toluene*	<0.050	0.050	05/08/2023	ND	1.94	96.9	2.00	8.85	
Ethylbenzene*	<0.050	0.050	05/08/2023	ND	1.86	93.2	2.00	8.23	
Total Xylenes*	<0.150	0.150	05/08/2023	ND	5.78	96.3	6.00	8.62	
Total BTEX	<0.300	<0.300 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/08/2023	ND	400	100	400	3.92	
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	05/08/2023	ND	207	103	200	0.756	
DRO >C10-C28*	<10.0	10.0	05/08/2023	ND	196	98.2	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	05/08/2023	ND					
Surrogate: 1-Chlorooctane	56.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

y OCD: 6/20 Inquished by:	ished by:	Miguel A	BTM-11	BTM-10	втм-9	втм-8	BTM-5	SW-7	SW-6	SW-5	SW-4	SW-3	ONLY) *	AB#		Email: john.f			ate)			T.	SIS Kequest of Co
Date: Time:	Date: Time:	Flores 5/5/	(4')	(4')	(4')	(4')	(4')	(0-1')	(o-a')	(o-a')	(0-4')	(1-4')		SAMPLE IDENTIFICATION		Email: john.faught1@tetratech.com; laci.luig@coterra.com	Cardinal Laboratories	Coterra: Laci Luig	Eddy County, NM	Tar Heel 19-18-7	Coterra Energy	Tetra Tech. Inc.	Pagnalysis Request of Chain of Custody Record
Received by:	Received by:	Received by:	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	DATE	YEAR: 2023	SAMPLING			Sampler Signature:	- June	Droinet #	- Constitution of the Cons	Site Manager	
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Date: Time:	Date: Time:	33	×	×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE		PRESERVATIVE				212C-MD-03090		ught	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
		100		_				1					# CONT	AINE	RS								
T	Sample Temperature	LAB USE ONLY	×	1	×	×	×	×	×		×		BTEX 80 TPH TX TPH 80 PAH 82 Total Me	1005 15M (70C tals A	GRC	Ba Cd	- ORC	Se Hg)		(Circl		
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Special Report Limits or TRRP Report DEX UPS Tracking #:		(Ustonus 1-	×	×	×	×	×	×	×	×	×	×	PCB's 8 NORM PLM (As Chloride Chloride General	besto	s) 1500 (TD:	S	attache	d list)		Method No.)		

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Date: Time: Sample Temperature	Received by:	Date: Time:	y:	2023 allinquished b
AB IUO ONLY	Shoteigney	Flores 5/5/23	Miguel A	1:16:
X 1 X	5/4/2023 X		TM-21	80
1 ×	5/4/2023 X	(A)	BTM-20 (M 19
		('ه	BTM-19 (X
×	5/4/2023 X	a')	BTM-18 (2	17
1 ×	5/4/2023 X		BTM-17 (4	110
	5/4/2023 X		BTM-16 (4'	15
X 1 X X	5/4/2023 X	,	BTM-15 (4	14
	5/4/2023 X	()	BTM-14 (4	(3
×	5/4/2023 X		BTM-13 (4	10
	5/4/2023 X		BTM-12 (4	
# CONT FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Me TCLP M	TIME WATER		*	(LAB USE)
ED (1005 15M 70C etals	YEAR: 2023	SAMPLE IDENTIFICATION	-	LAB#
PRESERVATIVE RES Y/N) BT G (Ext to GRO Ag As As As As As As As	SAMPLING MATRIX			The state of the s
- DR		Email: john.faught1@tetratech.com; laci.luig@coterra.com	Email: john.faugh	
6) O - C		THE BOW OF SECULO		Comments:
ORO Pb S	Sampler Signature:	Cardinal Laboratories		Receiving Laboratory:
e Hg		Coterra: Laci Luig		Invoice to:
212C-MD-03090	Project #: 212	Eddy County, NM		Project Location: (county, state)
		Tar Heel 19-18-7	Tar H	Project Name:
John Faught (Circle or Speci	Site Manager: John F	Coterra Energy	Coter	Client Name:
901 W Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 632-4559 Fax (432) 682-3946		Tetra Tech. Inc.		a

Tetra Tech	Te	ra Tech Inc.		901 N	W Wall Street, Ste 100						
7	Te	Tetra Tech. Inc.		901 M	901 W Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946						
Client Name:	Coterra Energy	ergy	Site Manager:	John Faught	aught		\dashv		ANAL	REQUES	
Project Name:	Tar Heel 19-18-7	9-18-7					_	(CIrc)	e or Spec	ITY MIETN	od No.)
Project Location: (county, state)	Eddy County, NM	ty, NM	Project #:	212	212C-MD-03090						list)
Invoice to:	Coterra: Laci Luig	ici Luig						Hg			tached
Receiving Laboratory:	Cardinal Laboratories	aboratories	Sampler Signature:				3	Pb Se		5	
Comments:								Cd Cr	24		TDS stry (s
Ema	ail: john.faught1@te	Email: john.faught1@tetratech.com; laci.luig@coterra.com	SAMBING	MATRIX	PRESERVATIVE	S	BTEX	As Ba		ol. 827	ate Chemi
MASSASS.	SAM	SAMBI E IDENTIEICATION	YEAR: 2023	4		AINEF	21B	OC als Aç	mi Vol	emi. \ 082 / 6	SM 45 Su Water
(LABUSE)	*		DATE	WATER	HCL HNO ₃ ICE	# CONT	FILTERE BTEX 80 TPH TX	TPH 801 PAH 827 Total Me TCLP Me	TCLP Vo TCLP Se RCI GC/MS V	GC/MS S PCB's 8 NORM PLM (Asi	Chloride Chloride General Anion/Ca
∂ BTM-22	N-22 (2)	<i>\</i>	5/4/2023	×		1					
22 BTM-23	1-23 (a)	5/4/2023	×	×	1	×	×			×
23 BTM-24			5/4/2023	×	×	1	×	×			×
31 BTM-25	1-25		5/4/2023	×	×	1	×	×			×
	A-26 (1)		5/4/2023	×	×		×	×			×
QO BIM-2/	12-7		5/4/2023	×	×	-	· >	× ×			< >
₩ BTM-29	A-29 (1:		5/4/2023	××	××		××	××			××
BTM	BTM-30 (1,		5/4/2023	×	×	_	×	×			×
30 BTM-31	1-31)	5/4/2023	×	×	1	×	×			×
18:1	nuel A Flores	Date: Time:	Received by:	Vrove	Date: Time:	1001		LAB USE ONLY	Sample	STAT Y	changes
6/2029 linquished by:		Date: Time:	Received by:	0	Date: Time:	œ.	Sample	Temperature	X RUSH:	Rush Charges Authorized	24 hr 48 hr
D: 6/2elinquished by:		Date: Time:	Received by:		Date: Time:		Sign	#18	Specia	al Report Limit	Special Report Limits or TRRP Report
)(

OCD: 6/26/26	Relinquished by: Miguel A Flores Relinquished by:				33 BTM-34 (2')	33 BTM-33 (1')	3/ BTM-32 (1')	*	HASASS SAME		Email: john faught1@te	Cardinal Laboratories	nvoice to: Coterra: Laci Luig	Project Location: Eddy County, NM (county, state)	Project Name: Tar Heel 19-18-7	Cilent Name: Coterra Energy	Tetra Tec
Date: Time:	Date: Time: Date: Time:								SAMPLE IDENTIFICATION	Section 2	Email: john faughti @letratech.com: laci luic@coterra.com	aboratories	sci Luig	ity, NM	9-18-7	ergy	Tetra Tech. Inc.
Received by:	Received by:				5/4/2023	5/4/2023	5/4/2023	DATE	YEAR: 2023	SAMPLING		ompier organicae.	San Land	Project #:		Site Manager:	
Date:	May 5 Date:				×	×		WATER SOIL HCL	R	MATRIX PR				212C-MD-03090		John Faught	901 W Wall Street, Ste 10 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
Time:	5/33 /1001				X	× 1	×	HNO ₃ ICE # CONT		PRESERVATIVE (S)				03090			et, Ste 100 ts 79701 2-4559 12-3946
								FILTER		_							
(Circle) H	mple To				X	×		TPH TX	(1005 (Ext to	_		- MPO		_		
CO.V.	LAB USE ONLY ple Temperature		#		F			PAH 82 Total Me	70C						-	í.	
WERED NERED	(A) #							TCLP M	etals A	g As I	_				_ 0	AN	
	Sample X RUSH:				F			TCLP S							_ 0	ANALYSIS	
Rush Charges Authorized Special Report Limits or T EDEX UPS Tracking #:	* 6×							GC/MS	Semi. 1	Vol. 8		625			_{		
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horized hits or T	cha y 24 hr				×	×	×	PLM (As Chloride	SM 4	500 or	_				_	EST	
70	4 4				+			Chloride	Wate	_	_		attache	d list)	_ 5	0	
R R	- D - L	1						Anion/C	ation	Balan	ce				_		
Rush Charges Authorized Special Report Limits or TRRP Report DEX UPS Tracking #:	Shr 7m			\Box	+										_		

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report Rev. 1

Prepared for:

John Faught
Tetra Tech
901 W Wall Street, Ste 100
Midland, TX 79705

Project: Tar Heel 19-18-7

Project Number: 212C-MD-03090

Location: Eddy County, NM

Lab Order Number: 3E12018



Current Certification

Report Date: 05/26/23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1 (0-5.5')	3E12018-01	Soil	05/11/23 11:10	05-12-2023 12:52
SW-2 (0-4.5')	3E12018-02	Soil	05/11/23 11:20	05-12-2023 12:52
SW-3 (1-4')	3E12018-03	Soil	05/11/23 12:50	05-12-2023 12:52
SW-8 (2-4')	3E12018-04	Soil	05/11/23 10:00	05-12-2023 12:52
SW-9 (4-5')	3E12018-05	Soil	05/11/23 13:10	05-12-2023 12:52
BTM-1 (5')	3E12018-06	Soil	05/11/23 12:30	05-12-2023 12:52
BTM-2 (5')	3E12018-07	Soil	05/11/23 13:10	05-12-2023 12:52
BTM-3 (5.5')	3E12018-08	Soil	05/11/23 12:10	05-12-2023 12:52
BTM-4 (5')	3E12018-09	Soil	05/11/23 14:50	05-12-2023 12:52
BTM-6 (5')	3E12018-10	Soil	05/11/23 11:50	05-12-2023 12:52
BTM-7 (5')	3E12018-11	Soil	05/11/23 14:30	05-12-2023 12:52
BTM-12 (4.5')	3E12018-12	Soil	05/11/23 11:40	05-12-2023 12:52

SW-1 (0-5.5') 3E12018-01 (Soil)

	Lim	it Repor	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Po	ermian B	asin Envi	ronmental I	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	95.9 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:02	EPA 8021B	
Total Petroleum Hydrocarbons C6-	-C35 by EPA	Method	8015M						
C6-C12	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 02:51	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 02:51	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 02:51	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P3E1211	05/12/23 14:30	05/13/23 02:51	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P3E1211	05/12/23 14:30	05/13/23 02:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 02:51	calc	
General Chemistry Parameters by	EPA / Stand	ard Metl	nods						
Chloride	1000	1.09	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 03:44	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

SW-2 (0-4.5') 3E12018-02 (Soil)

A 1 4 -	Limit	t Repo	•						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Toluene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Ethylbenzene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Xylene (p/m)	ND (0.00213	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Xylene (o)	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	5.9 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	i	102 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:22	EPA 8021B	
Total Petroleum Hydrocarbons C6	5-C35 by EPA	Method	8015M						
C6-C12	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:15	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:15	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:15	TPH 8015M	
Surrogate: 1-Chlorooctane	9.	3.7 %	70-130		P3E1211	05/12/23 14:30	05/13/23 03:15	TPH 8015M	
Surrogate: o-Terphenyl	i	106 %	70-130		P3E1211	05/12/23 14:30	05/13/23 03:15	TPH 8015M	
Total Petroleum Hydrocarbon	ND	26.6	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 03:15	calc	
C6-C35									
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	100	1.06	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 03:58	EPA 300.0	-
% Moisture	6.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

SW-3 (1-4') 3E12018-03 (Soil)

	Lim	it Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	g	95.4 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P3E1703	05/17/23 10:02	05/17/23 15:43	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:38	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:38	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 03:38	TPH 8015M	
Surrogate: 1-Chlorooctane	<u>,</u>	97.9 %	70-130		P3E1211	05/12/23 14:30	05/13/23 03:38	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P3E1211	05/12/23 14:30	05/13/23 03:38	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 03:38	calc	
General Chemistry Parameters by	EPA / Stand	ard Metl	hods						
Chloride	64.8	1.06	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 04:13	EPA 300.0	
% Moisture	6.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

SW-8 (2-4') 3E12018-04 (Soil)

Amalana	Limit	Repo	~						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Toluene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Ethylbenzene	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Xylene (p/m)	ND (0.00213	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Xylene (o)	ND (0.00106	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	1	102 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	6.0 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:04	EPA 8021B	
Total Petroleum Hydrocarbons C6	5-C35 by EPA	Method	8015M						
C6-C12	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 04:49	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 04:49	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 04:49	TPH 8015M	
Surrogate: 1-Chlorooctane	9.	9.5 %	70-130		P3E1211	05/12/23 14:30	05/13/23 04:49	TPH 8015M	
Surrogate: o-Terphenyl	i	110 %	70-130		P3E1211	05/12/23 14:30	05/13/23 04:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 04:49	calc	
General Chemistry Parameters by	EPA / Standa	rd Met	hods						
Chloride	76.8	1.06	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 04:27	EPA 300.0	
% Moisture	6.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

SW-9 (4-5') 3E12018-05 (Soil)

A 1 4 -	Limit	t Repo	•						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Toluene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Ethylbenzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Xylene (p/m)	ND (0.00204	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Xylene (o)	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	6.1 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:25	EPA 8021B	
Fotal Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:12	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:12	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:12	TPH 8015M	
Surrogate: 1-Chlorooctane	9	5.3 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:12	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 05:12	calc	
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	180	1.02	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 04:41	EPA 300.0	
% Moisture	2.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-1 (5') 3E12018-06 (Soil)

Analyte	Limi	it Repo	•	Dilect	D-4 1	D 1	Anchinad	Method	Notes
7 Hairy Co	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	g	96.1 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P3E1703	05/17/23 10:02	05/17/23 16:46	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:35	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:35	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:35	TPH 8015M	
Surrogate: 1-Chlorooctane	<u>,</u>	91.9 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:35	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:35	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 05:35	calc	
General Chemistry Parameters by	EPA / Stand	ard Metl	hods						
Chloride	502	1.09	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 04:56	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-2 (5') 3E12018-07 (Soil)

		_							
Analyta	Limit	Repo						36.4.4	3.7
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Toluene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Ethylbenzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Xylene (p/m)	ND (0.00204	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Xylene (o)	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	6.5 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	1	103 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:06	EPA 8021B	
Total Petroleum Hydrocarbons C6	5-C35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:59	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:59	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 05:59	TPH 8015M	
Surrogate: 1-Chlorooctane	9.	5.0 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:59	TPH 8015M	
Surrogate: o-Terphenyl	1	106 %	70-130		P3E1211	05/12/23 14:30	05/13/23 05:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 05:59	calc	
General Chemistry Parameters by	EPA / Standa	ırd Metl	hods						
Chloride	75.7	1.02	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 05:10	EPA 300.0	
% Moisture	2.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-3 (5.5') 3E12018-08 (Soil)

Analyte	Limi	t Repo	·	Dil et	D ()	D 1	A me 1 J	Method	NT
7 mary to	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	05.9 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:27	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:22	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:22	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:22	TPH 8015M	
Surrogate: 1-Chlorooctane	8	88.1 %	70-130		P3E1211	05/12/23 14:30	05/13/23 06:22	TPH 8015M	
Surrogate: o-Terphenyl	9	08.4 %	70-130		P3E1211	05/12/23 14:30	05/13/23 06:22	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 06:22	calc	
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	337	1.09	mg/kg dry	1	P3E1203	05/12/23 15:20	05/14/23 05:24	EPA 300.0	
% Moisture	8.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-4 (5') 3E12018-09 (Soil)

	Limit	Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00105	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Toluene	ND (0.00105	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Ethylbenzene	ND (0.00105	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Xylene (p/m)	ND (0.00211	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Xylene (o)	ND (0.00105	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	6.8 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	1	103 %	80-120		P3E1703	05/17/23 10:02	05/17/23 17:48	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:45	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:45	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 06:45	TPH 8015M	
Surrogate: 1-Chlorooctane	9.	2.2 %	70-130		P3E1211	05/12/23 14:30	05/13/23 06:45	TPH 8015M	
Surrogate: o-Terphenyl	1	104 %	70-130		P3E1211	05/12/23 14:30	05/13/23 06:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 06:45	calc	
General Chemistry Parameters by	EPA / Standa	rd Metl	hods						
Chloride	538	1.05	mg/kg dry	1	P3E1302	05/13/23 13:00	05/14/23 14:27	EPA 300.0	
% Moisture	5.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-6 (5') 3E12018-10 (Soil)

	Limit	t Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00104	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Toluene	ND (0.00104	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Ethylbenzene	ND (0.00104	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Xylene (p/m)	ND (0.00208	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Xylene (o)	ND (0.00104	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	7.2 %	80-120		P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P3E1703	05/17/23 10:02	05/17/23 18:08	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	26.0	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:09	TPH 8015M	•
>C12-C28	ND	26.0	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:09	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:09	TPH 8015M	
Surrogate: 1-Chlorooctane	9	0.0 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:09	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:09	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 07:09	calc	
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	733	1.04	mg/kg dry	1	P3E1302	05/13/23 13:00	05/14/23 15:10	EPA 300.0	
% Moisture	4.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-7 (5') 3E12018-11 (Soil)

A 1.	Limit	Repo							
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Toluene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Ethylbenzene	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Xylene (p/m)	ND (0.00204	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Xylene (o)	ND (0.00102	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	9	9.4 %	80-120		P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	6.8 %	80-120		P3E1703	05/17/23 10:02	05/17/23 19:10	EPA 8021B	
Total Petroleum Hydrocarbons C6	5-C35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:32	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:32	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:32	TPH 8015M	
Surrogate: 1-Chlorooctane	9	2.1 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:32	TPH 8015M	
Surrogate: o-Terphenyl	i	104 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 07:32	calc	
General Chemistry Parameters by	EPA / Standa	ard Metl	hods						
Chloride	86.1	1.02	mg/kg dry	1	P3E1302	05/13/23 13:00	05/14/23 15:24	EPA 300.0	
% Moisture	2.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTM-12 (4.5') 3E12018-12 (Soil)

	Limi	t Repo	rting						
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		P	ermian B	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	9	06.6 %	80-120		P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		P3E1703	05/17/23 10:02	05/17/23 19:30	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	25.8	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:55	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:55	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3E1211	05/12/23 14:30	05/13/23 07:55	TPH 8015M	
Surrogate: 1-Chlorooctane	9	95.3 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:55	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P3E1211	05/12/23 14:30	05/13/23 07:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/12/23 14:30	05/13/23 07:55	calc	
	EDA / Stor- J.	. wd M - 41	hada						
General Chemistry Parameters by Chloride	<u>EPA / Standa</u> 449	1.03	mg/kg dry	1	P3E1302	05/13/23 13:00	05/14/23 15:39	EPA 300.0	
% Moisture	3.0	0.1	%	1	P3E1502	05/15/23 09:05	05/15/23 09:16	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	_
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1703 - *** DEFAULT PREP ***										
Blank (P3E1703-BLK1)				Prepared &	Analyzed:	05/17/23				
Benzene	ND	0.00100	mg/kg		-					
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	80-120			
LCS (P3E1703-BS1)				Prepared &	Analyzed:	05/17/23				
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		106	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.0	80-120			
LCS Dup (P3E1703-BSD1)				Prepared &	Analyzed:	05/17/23				
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120	6.19	20	
Toluene	0.116	0.00100	"	0.100		116	80-120	6.42	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	3.77	20	
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120	7.01	20	
Xylene (o)	0.108	0.00100	"	0.100		108	80-120	7.32	20	
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Calibration Blank (P3E1703-CCB1)				Prepared &	Analyzed:	05/17/23				
Benzene	0.130		ug/kg							
Toluene	0.430		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.2	80-120			

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			-				-			
Batch P3E1703 - *** DEFAULT PREP *** Calibration Blank (P3E1703-CCB2)				Prepared &	Analyzad	05/17/22				
Benzene	0.00		ug/kg	r repared &	Anaryzed:	03/1//23				
Foluene	0.00		ug/kg "							
Ethylbenzene	0.00		,,							
Xylene (p/m)	0.00		,,							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	80-120			
Calibration Check (P3E1703-CCV1)				Prepared &	: Analyzed:	05/17/23				
Benzene	0.110	0.00100	mg/kg	0.100	<u>, , , , , , , , , , , , , , , , , , , </u>	110	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0992	0.00100	"	0.100		99.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	75-125			
Calibration Check (P3E1703-CCV2)				Prepared &	: Analyzed:	05/17/23				
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.115	0.00100	"	0.100		115	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	75-125			
Calibration Check (P3E1703-CCV3)				Prepared &	: Analyzed:	05/17/23				
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.215	0.00200	"	0.200		107	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E1703 - *** DEFAULT PREP ***										
Matrix Spike (P3E1703-MS1)	Soui	rce: 3E12018	-01	Prepared &	Analyzed:	05/17/23				
Benzene	0.0904	0.00109	mg/kg dry	0.109	ND	83.1	80-120			
Toluene	0.0850	0.00109	"	0.109	ND	78.2	80-120			QM-0
Ethylbenzene	0.0669	0.00109	"	0.109	ND	61.5	80-120			QM-0
Xylene (p/m)	0.139	0.00217	"	0.217	ND	63.9	80-120			QM-0
Xylene (o)	0.0732	0.00109	"	0.109	ND	67.3	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.138		"	0.130		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.130		99.3	80-120			

Matrix Spike Dup (P3E1703-MSD1)	Sour	rce: 3E12018	3-01	Prepared &	Analyzed:	05/17/23				
Benzene	0.101	0.00109	mg/kg dry	0.109	ND	93.3	80-120	11.5	20	
Toluene	0.0954	0.00109	"	0.109	ND	87.7	80-120	11.5	20	
Ethylbenzene	0.0777	0.00109	"	0.109	ND	71.4	80-120	14.9	20	QM-05
Xylene (p/m)	0.158	0.00217	"	0.217	ND	72.9	80-120	13.2	20	QM-05
Xylene (o)	0.0819	0.00109	"	0.109	ND	75.4	80-120	11.3	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.129		"	0.130		98.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.130		105	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1211 - TX 1005										
Blank (P3E1211-BLK1)				Prepared &	Analyzed:	05/12/23				
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	94.7		"	100		94.7	70-130			
Surrogate: o-Terphenyl	51.7		"	50.0		103	70-130			
LCS (P3E1211-BS1)				Prepared &	Analyzed:	05/12/23				
C6-C12	1040	25.0	mg/kg	1000		104	75-125			
>C12-C28	892	25.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
LCS Dup (P3E1211-BSD1)				Prepared: ()5/12/23 Aı	nalyzed: 05	/15/23			
C6-C12	1060	25.0	mg/kg	1000		106	75-125	2.18	20	
>C12-C28	966	25.0	"	1000		96.6	75-125	8.01	20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	63.9		"	50.0		128	70-130			
Calibration Check (P3E1211-CCV1)				Prepared &	Analyzed:	05/12/23				
C6-C12	548	25.0	mg/kg	500		110	85-115			
>C12-C28	544	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	54.6		"	50.0		109	70-130			
Calibration Check (P3E1211-CCV2)				Prepared: ()5/12/23 Aı	nalyzed: 05	/13/23			
C6-C12	547	25.0	mg/kg	500		109	85-115			
>C12-C28	542	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1211 - TX 1005										
Matrix Spike (P3E1211-MS1)	Sour	ce: 3E11015	-46	Prepared: (05/12/23 A	nalyzed: 05	/13/23			
C6-C12	1090	27.2	mg/kg dry	1090	ND	100	75-125			
>C12-C28	1020	27.2	"	1090	12.3	93.1	75-125			
Surrogate: 1-Chlorooctane	127		"	109		117	70-130			
Surrogate: o-Terphenyl	8.76		"	54.3		16.1	70-130			S-GC
Matrix Spike Dup (P3E1211-MSD1)	Sour	ce: 3E11015	-46	Prepared: (05/12/23 A	nalyzed: 05	/13/23			
C6-C12	1110	27.2	mg/kg dry	1090	ND	102	75-125	1.70	20	
>C12-C28	970	27.2	"	1090	12.3	88.1	75-125	5.54	20	
Surrogate: 1-Chlorooctane	125		"	109		115	70-130			
Surrogate: o-Terphenyl	52.3		"	54.3		96.2	70-130			

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1203 - *** DEFAULT PREP ***										
Blank (P3E1203-BLK1)				Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	ND	1.00	mg/kg							
LCS (P3E1203-BS1)				Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	17.6		mg/kg	18.4		95.6	90-110			
LCS Dup (P3E1203-BSD1)				Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	17.8		mg/kg	18.4		96.7	90-110	1.12	10	
Calibration Check (P3E1203-CCV1)				Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	18.7		mg/kg	18.0		104	90-110			
Calibration Check (P3E1203-CCV2)				Prepared: (05/12/23 A	nalyzed: 05	/14/23			
Chloride	18.0		mg/kg	18.0		100	90-110			
Matrix Spike (P3E1203-MS1)	Sou	rce: 3E12002-	-03	Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	44.9		mg/kg	50.0	1.40	86.9	80-120			
Matrix Spike (P3E1203-MS2)	Sou	rce: 3E12004-	-06	Prepared: (05/12/23 A	nalyzed: 05	/14/23			
Chloride	45.1		mg/kg	50.0	0.294	89.7	80-120			
Matrix Spike Dup (P3E1203-MSD1)	Sou	rce: 3E12002-	-03	Prepared: (05/12/23 A	nalyzed: 05	/13/23			
Chloride	41.9		mg/kg	50.0	1.40	81.1	80-120	6.73	20	
Matrix Spike Dup (P3E1203-MSD2)	Sou	rce: 3E12004-	-06	Prepared: (05/12/23 A	nalyzed: 05	/14/23			
Chloride	43.0		mg/kg	50.0	0.294	85.4	80-120	4.83	20	
Batch P3E1302 - *** DEFAULT PREP ***										
Blank (P3E1302-BLK1)				Prepared: (05/13/23 A	nalyzed: 05	/14/23			
Chloride	ND	1.00	mg/kg							

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1302 - *** DEFAULT PREP ***										
Calibration Check (P3E1302-CCV1)				Prepared: (05/13/23 A	nalyzed: 05	5/14/23			
Chloride	18.0		mg/kg	18.0		100	90-110			
Calibration Check (P3E1302-CCV2)				Prepared: (05/13/23 A	nalyzed: 05	5/14/23			
Chloride	17.3		mg/kg	18.0		95.9	90-110			
Matrix Spike (P3E1302-MS2)	Sou	rce: 3E12019-	-07	Prepared: (05/13/23 A	nalyzed: 05	5/14/23			
Chloride	143		mg/kg	100	41.0	102	80-120			
Matrix Spike Dup (P3E1302-MSD2)	Sou	rce: 3E12019-	-07	Prepared: (05/13/23 A	nalyzed: 05	5/14/23			
Chloride	139		mg/kg	100	41.0	98.4	80-120	2.82	20	
Batch P3E1502 - *** DEFAULT PREP ***										
Blank (P3E1502-BLK1)				Prepared &	k Analyzed:	05/15/23				
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK2)				Prepared &	k Analyzed:	05/15/23				
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK3)				Prepared &	k Analyzed:	05/15/23				
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK4)				Prepared &	k Analyzed:	05/15/23				
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK5)				Prepared &	k Analyzed:	05/15/23				
% Moisture	ND	0.1	%	-	*					

Analyta	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E1502 - *** DEFAULT PREP ***										
Blank (P3E1502-BLK6)				Prepared &	Analyzed:	05/15/23				
% Moisture	ND	0.1	%							
Blank (P3E1502-BLK7)				Prepared &	Analyzed:	05/15/23				
% Moisture	ND	0.1	%	-	-					
Duplicate (P3E1502-DUP1)	Sou	rce: 3E09016-	19	Prepared &	Analyzed:	05/15/23				
% Moisture	11.0	0.1	%	*	14.0			24.0	20	R3
Duplicate (P3E1502-DUP2)	Sou	rce: 3E09016-	09	Prepared &	Analyzed:	05/15/23				
% Moisture	14.0	0.1	%		10.0			33.3	20	R3
Duplicate (P3E1502-DUP3)	Sou	rce: 3E12002-	06	Prepared &	Analyzed:	05/15/23				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P3E1502-DUP4)	Sou	rce: 3E11019-	02	Prepared &	Analyzed:	05/15/23				
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P3E1502-DUP5)	Sou	rce: 3E11015-	07	Prepared &	. Analyzed:	05/15/23				
% Moisture	ND	0.1	%		ND				20	
Duplicate (P3E1502-DUP6)	Sou	rce: 3E11015-	17	Prepared &	z Analyzed:	05/15/23				
% Moisture	1.0	0.1	%		2.0			66.7	20	R3
Duplicate (P3E1502-DUP7)	Sou	rce: 3E11015-	32	Prepared &	- Analyzed	05/15/23				
% Moisture	4.0	0.1	%	1 repared 6	4.0	03/13/23		0.00	20	
Duplicate (P3E1502-DUP8)	C	rce: 3E11015-	12	Prepared &	- Analyzad	05/15/22				
% Moisture	1.0	0.1	• 2	ricpared o	1.0	03/13/23		0.00	20	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E1502 - *** DEFAULT PREP ***										
Duplicate (P3E1502-DUP9)	Sou	rce: 3E12004-	05	Prepared &	z Analyzed:	05/15/23				
% Moisture	1.0	0.1	%		16.0			176	20	R3
Duplicate (P3E1502-DUPA)	Sou	rce: 3E12006-	15	Prepared &	z Analyzed:	05/15/23				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUPB)	Sou	rce: 3E12006-	30	Prepared &	z Analyzed:	05/15/23				
% Moisture	1.0	0.1	%	·	1.0	·	·	0.00	20	·
Duplicate (P3E1502-DUPC)	Sou	rce: 3E12006-	40	Prepared &	analyzed:	05/15/23				
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3E1502-DUPD)	Sou	rce: 3E12018-	05	Prepared &	k Analyzed:	05/15/23				
% Moisture	3.0	0.1	%		2.0			40.0	20	R3

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL CC Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Date: 5/26/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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	oy:) sko	THURK	SA SA	BTM-6 (5')	BTM-4 (5')	BTM-3 (5.5 ¹)	BTM-2 (5')	BTM-1 (5')	SW-9 (4-5')	SW-8 (2-4')	SW-3 (1-4')	SW-2 (0-4')	SW-1 (0-5.5')				Email: john.faugh		1	Coter		Tar H	Coterra		quest of Chain
	Date: Time:		Date: Time	5-12-27	Date: Time:												SAMPLE IDENTIFICATION		Email: john.faught1@tetratech.com; Laci.luig@coterra.com		Gardinal Laboratories PBE	Coterra Energy: Laci Luig	Eddy County, NM	Tar Heel 19-18-7	'a Energy	Tetra Tech,	Analysis Request of Chain of Custody Record
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	by:	by:	by:					BTM-12 (4.5')	BTM-7 (5')		SAMPLE		Email: john.faught1@tetrate	A	Coterra Energy: Laci Luig	n: Eddy County, NM	⊤ar Heel 19-18-7	Coterra Energy	Tetr	Analysis Request of Chain of Custody Record
	Date: Time:	Date: Time:	5-1223 1152								SAMPLE IDENTIFICATION		Email: john.faught1@tetratech.com; Laci.luig@coterra.com	Cardinal Laboratories PDF L	y: Laci Luig	NM	3-7	У	Tetra Tech, Inc.	dy Record
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

John Faught
Tetra Tech
901 W Wall Street, Ste 100
Midland, TX 79705

Project: Tar Heel 19-18-7

Project Number: 212C-MD-03090

Location: Eddy County, NM

Lab Order Number: 3E19009



Current Certification

Report Date: 05/25/23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1 (0-5.5')	3E19009-01	Soil	05/19/23 14:22	05-19-2023 14:22
BTM-6 (5.5')	3E19009-02	Soil	05/19/23 00:00	05-19-2023 14:22

SW-1 (0-5.5') 3E19009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental I	Lab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.8 %	80-120		P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	80-120		P3E2404	05/24/23 09:19	05/24/23 17:46	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	25.5	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:06	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:06	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:06	TPH 8015M	
Surrogate: 1-Chlorooctane		80.3 %	70-130		P3E2215	05/22/23 14:00	05/23/23 12:06	TPH 8015M	
Surrogate: o-Terphenyl		89.1 %	70-130		P3E2215	05/22/23 14:00	05/23/23 12:06	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/22/23 14:00	05/23/23 12:06	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	224	1.02	mg/kg dry	1	P3E2210	05/22/23 08:00	05/22/23 15:17	EPA 300.0	
% Moisture	2.0	0.1	%	1	P3E2208	05/22/23 08:38	05/22/23 08:45	ASTM D2216	

BTM-6 (5.5') 3E19009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		P	ermian Ba	asin Envi	ronmental L	ab, L.P.			
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-120		P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.9 %	80-120		P3E2404	05/24/23 09:19	05/24/23 18:07	EPA 8021B	
Total Petroleum Hydrocarbons C6	-C35 by EPA	Method	8015M						
C6-C12	ND	26.3	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:32	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:32	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3E2215	05/22/23 14:00	05/23/23 12:32	TPH 8015M	
Surrogate: 1-Chlorooctane		84.7 %	70-130		P3E2215	05/22/23 14:00	05/23/23 12:32	TPH 8015M	
Surrogate: o-Terphenyl		94.3 %	70-130		P3E2215	05/22/23 14:00	05/23/23 12:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/22/23 14:00	05/23/23 12:32	calc	
General Chemistry Parameters by	EPA / Stand	lard Met	hods						
Chloride	215	1.05	mg/kg dry	1	P3E2210	05/22/23 08:00	05/22/23 15:31	EPA 300.0	
% Moisture	5.0	0.1	%	1	P3E2208	05/22/23 08:38	05/22/23 08:45	ASTM D2216	

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2404 - *** DEFAULT PREP ***										
Blank (P3E2404-BLK1)				Prepared &	: Analyzed:	05/24/23				
Benzene	ND	0.00100	mg/kg		<u> </u>					
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	80-120			
LCS (P3E2404-BS1)				Prepared &	: Analyzed:	05/24/23				
Benzene	0.119	0.00100	mg/kg	0.100	-	119	80-120			
Toluene	0.117	0.00100	"	0.100		117	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.0	80-120			
LCS Dup (P3E2404-BSD1)				Prepared &	: Analyzed:	05/24/23				
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120	0.662	20	
Toluene	0.117	0.00100	"	0.100		117	80-120	0.0772	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.203	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	80-120	0.0135	20	
Xylene (o)	0.110	0.00100	"	0.100		110	80-120	0.677	20	
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		88.9	80-120			
Calibration Blank (P3E2404-CCB1)				Prepared &	: Analyzed:	05/24/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2404 - *** DEFAULT PREP ***										
Calibration Blank (P3E2404-CCB2)				Prepared &	Analyzed:	05/24/23				
Benzene	0.00		ug/kg	-	-					
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.120		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.6	80-120			
Calibration Blank (P3E2404-CCB3)				Prepared &	Analyzed:	05/24/23				
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		88.7	80-120			
Calibration Check (P3E2404-CCV1)				Prepared &	Analyzed:	05/24/23				
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			
Calibration Check (P3E2404-CCV2)				Prepared &	Analyzed:	05/24/23				
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		85.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.9	75-125			

Permian Basin Environmental Lab, L.P.

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2404 - *** DEFAULT PREP ***										
Calibration Check (P3E2404-CCV3)				Prepared &	Analyzed:	05/24/23				
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.0972	0.00100	"	0.100		97.2	80-120			
Xylene (p/m)	0.193	0.00200	"	0.200		96.5	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.0896		"	0.120		74.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.0972		"	0.120		81.0	75-125			
Matrix Spike (P3E2404-MS1)	Sou	rce: 3E22016	5-01	Prepared &	Analyzed:	05/24/23				
Benzene	0.106	0.00101	mg/kg dry	0.101	ND	104	80-120			
Toluene	0.0803	0.00101	"	0.101	ND	79.5	80-120			
Ethylbenzene	0.0687	0.00101	"	0.101	ND	68.0	80-120			
Xylene (p/m)	0.128	0.00202	"	0.202	ND	63.4	80-120			
Xylene (o)	0.0645	0.00101	"	0.101	ND	63.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.105		"	0.121		86.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.121		97.4	80-120			
Matrix Spike Dup (P3E2404-MSD1)	Sou	rce: 3E22016	5-01	Prepared &	Analyzed:	05/24/23				
Benzene	0.120	0.00101	mg/kg dry	0.101	ND	119	80-120	12.8	20	
Toluene	0.0943	0.00101	"	0.101	ND	93.3	80-120	16.0	20	
Ethylbenzene	0.0813	0.00101	"	0.101	ND	80.5	80-120	16.8	20	
Xylene (p/m)	0.152	0.00202	"	0.202	ND	75.0	80-120	16.7	20	
Xylene (o)	0.0766	0.00101	"	0.101	ND	75.8	80-120	17.2	20	
Surrogate: 4-Bromofluorobenzene	0.106		"	0.121		87.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.121		98.1	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E2215 - TX 1005										
Blank (P3E2215-BLK1)				Prepared: (05/22/23 Aı	nalyzed: 05	/23/23			
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	63.4		"	50.0		127	70-130			
LCS (P3E2215-BS1)				Prepared: ()5/22/23 Aı	nalyzed: 05	/23/23			
C6-C12	1070	25.0	mg/kg	1000		107	75-125			
>C12-C28	918	25.0	"	1000		91.8	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			
LCS Dup (P3E2215-BSD1)				Prepared: ()5/22/23 Aı	nalyzed: 05	/23/23			
C6-C12	1080	25.0	mg/kg	1000		108	75-125	0.662	20	
>C12-C28	926	25.0	"	1000		92.6	75-125	0.936	20	
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	62.9		"	50.0		126	70-130			
Calibration Blank (P3E2215-CCB1)				Prepared: (05/22/23 Aı	nalyzed: 05	/23/23			
C6-C12	8.53		mg/kg							
>C12-C28	7.33		"							
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	61.5		"	50.0		123	70-130			
Calibration Blank (P3E2215-CCB2)				Prepared: (05/22/23 Aı	nalyzed: 05	/23/23			
C6-C12	6.95		mg/kg			-				
>C12-C28	12.8		"							
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3E2215 - TX 1005										
Calibration Check (P3E2215-CCV1)				Prepared: ()5/22/23 A	nalyzed: 05	/23/23			
C6-C12	493	25.0	mg/kg	500		98.7	85-115			
>C12-C28	472	25.0	"	500		94.4	85-115			
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	60.0		"	50.0		120	70-130			
Calibration Check (P3E2215-CCV2)				Prepared: ()5/22/23 A	nalyzed: 05	/23/23			
C6-C12	478	25.0	mg/kg	500		95.7	85-115			
>C12-C28	469	25.0	"	500		93.9	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	59.1		"	50.0		118	70-130			
Duplicate (P3E2215-DUP1)	Sou	rce: 3E19005-	01	Prepared: ()5/22/23 A	nalyzed: 05	/23/23			
C6-C12	79.5	140	mg/kg dry		ND			133	20	
>C12-C28	2090	140	"		372			139	20	
Surrogate: 1-Chlorooctane	101		"	112		89.6	70-130			
Surrogate: o-Terphenyl	57.3		"	56.2		102	70-130			

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E2208 - *** DEFAULT PREP ***										
Blank (P3E2208-BLK1)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%							
Blank (P3E2208-BLK2)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%							
Blank (P3E2208-BLK3)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%	·	·	·	·		·	·
Blank (P3E2208-BLK4)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%							
Blank (P3E2208-BLK5)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%							
Blank (P3E2208-BLK6)				Prepared &	Analyzed:	05/22/23				
% Moisture	ND	0.1	%							
Duplicate (P3E2208-DUP1)	Sou	rce: 3E17004-0	01	Prepared &	Analyzed:	05/22/23				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3E2208-DUP2)	Sou	rce: 3E17004-1	11	Prepared &	Analyzed:	05/22/23				
% Moisture	6.0	0.1	%		7.0			15.4	20	
Duplicate (P3E2208-DUP3)	Sour	rce: 3E17004-2	26	Prepared &	Analyzed:	05/22/23				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P3E2208-DUP4)	Sou	rce: 3E17004-3	36	Prepared &	Analyzed:	05/22/23				
% Moisture	6.0	0.1	%	•	6.0			0.00	20	

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E2208 - *** DEFAULT PREP ***										
Duplicate (P3E2208-DUP5)	Source: 3E17004-51		Prepared &	Prepared & Analyzed: 05/22/23						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P3E2208-DUP6)	Source: 3E17004-61		Prepared &	Prepared & Analyzed: 05/22/23						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P3E2208-DUP7)	Sou	rce: 3E17012-	01	Prepared &	: Analyzed:	05/22/23				
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P3E2208-DUP8)	Source: 3E18016-12		Prepared & Analyzed: 05/22/23							
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P3E2208-DUP9)	Source: 3E19001-07		Prepared & Analyzed: 05/22/23							
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P3E2208-DUPA)	Sou	rce: 3E19001-	17	Prepared & Analyzed: 05/22/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3E2208-DUPB)	Sou	rce: 3E19010-	01	Prepared & Analyzed: 05/22/23						
% Moisture	3.0	0.1	%		4.0			28.6	20	R
Batch P3E2210 - *** DEFAULT PREP ***										
Blank (P3E2210-BLK1)				Prepared &	: Analyzed:	05/22/23				
Chloride	ND	1.00	mg/kg							
LCS (P3E2210-BS1)				Prepared &	: Analyzed:	05/22/23				
Chloride	18.6		mg/kg	20.0		92.8	90-110			

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P3E2210 - *** DEFAULT PREP ***										
LCS Dup (P3E2210-BSD1)				Prepared &	Analyzed:	05/22/23				
Chloride	18.2		mg/kg	20.0		91.0	90-110	1.96	10	
Calibration Check (P3E2210-CCV1)				Prepared &	Analyzed:	05/22/23				
Chloride	18.7		mg/kg	20.0		93.5	90-110			
Calibration Check (P3E2210-CCV2)				Prepared &	Analyzed:	05/22/23				
Chloride	19.3		mg/kg	20.0		96.7	90-110			
Matrix Spike (P3E2210-MS1)	Source: 3E17002-17		Prepared & Analyzed: 05/22/23							
Chloride	117		mg/kg	100	17.9	99.2	80-120			
Matrix Spike Dup (P3E2210-MSD1)	Sour	rce: 3E17002-	-17	Prepared &	Analyzed:	05/22/23				
Chloride	119		mg/kg	100	17.9	101	80-120	1.31	20	

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

NPBEL Ct Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Date: 5/25/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

Hecetreu by Och. Water and I am	R5 PM	Project Loci (county, sta invoice to: Receiving L Comments:	Page 116 of 11
Relinquished by: Relinquished by: Relinquished by:		Project Location: (county, state) (nvoice to: Receiving Laboratory: Comments: Email	Client Name:
Date: Time: Date: Time: Date: Time:	SW-1 (0-5.5') BTM-6 (5.5')	Tar Heel 19-18-7 Eddy County, NM Coterra Energy: Laci Luig boratory: Cardinal Laboratories Email: john.faught1@tetratech.com; Laci.luig@coterra.com SAMPLE IDENTIFICATION	tequest of C
Received by: Received by: Received by: Received by: Received by: ORIGINAL	5/19/2023 5/19/2023	Project Sample	1C.
Received by: Received by: The bludge ORIGINAL COPY		WATER A	٥٥
Date: Time: Date: Time: Date: Time: 5 19 23		HCL PARE PARE 103	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-459 Fax (432) 682-3946 John Faught
14、77		# CONTAINERS FILTERED (Y/N)	
Sample Temperature 5.7 (Circle) HAND DELIVERED	××	BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg	3E/9009
		TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608	Page
RKS: RUSH: Same Day 24 hr 48 hr 7 Rush Charges Authorized Special Report Limits or TRRP Report		NORM PLM (Asbestos) Chloride SM 4500 or EPA 300 Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance	Page
oort Chr			9. Page 14 of 14

From: <u>Laci Luig</u>

To: Wells, Shelly, EMNRD

Subject: [EXTERNAL] Fwd: nAPP2206272830 Tar Heel 19-18-7 Fed Com 18H sample notification

Date: Wednesday, December 6, 2023 11:03:34 AM

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

Hi Shelly!

This is all I'm seeing for the sampling notification. I'll keep looking, but I'm not seeing a response email from the OCD.

Laci Luig (432) 208-3035

Begin forwarded message:

From: Laci Luig <Laci.Luig@coterra.com>
Date: April 28, 2023 at 7:50:10 AM CDT

To: NMOCD Spill Notifications <ocd.enviro@emnrd.nm.gov>, BLM Spill

Notifications <blm nm cfo spill@blm.gov>

Cc: john.faught1@tetratech.com

Subject: nAPP2206272830 Tar Heel 19-18-7 Fed Com 18H sample

notification

All.

This email serves as notification for confirmation sampling on the Tar Heel 19-18-7 Federal Com 18H in Eddy County. Sampling is scheduled to begin Thursday, May 4th at 8:30am (MST), weather and soil conditions permitting. Tetra Tech will be onsite to collect the confirmation samples.

Thank you,



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Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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

CONDITIONS

Action 232827

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	232827
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
scwells	None	12/7/2023