



May 15, 2023

Ashley Maxwell
Projects Environmental Specialist
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

**Re: Release Characterization and Deferral Request
ConocoPhillips
Heritage Concho
Corazon State Unit CTB Sec 10
Unit Letter C, Section 10, Township 21 South, Range 33 East
Lea County, New Mexico
Incident ID# nOY1719554100**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release that occurred at the Corazon State Unit Central Tank Battery (CTB) Section 10 facility (Facility ID fOY1719554031). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 10, Township 21 South, Range 33 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.5002861°, -103.5625153°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release occurred on July 9, 2017. The release was caused by a valve being left in the wrong position, sending fluids to the flare resulting in the release of 19 barrels (bbls) of oil, of which 16 bbls were recovered. The release footprint is located inside the flare berm with a portion on the lease pad area shared with the Corazon State Unit #3H well. The reported release footprint measures is shown on Figure 3. The NMOCD approved the initial C-141 on July 14, 2017 and subsequently assigned the release the Incident ID nOY1719554100. The initial C-141 form is included in Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively.

SITE CHARACTERIZATION

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

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database within approximately 1.3 miles (2,087 meters) of the Site, the depth to groundwater is 150 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

Tetra Tech

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REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and lack of groundwater determination in the area, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

2017 INITIAL SITE ASSESSMENT AND WORK PLAN

Tetra Tech conducted initial site assessment activities on behalf of Concho in August 2017. Two (2) sample trenches (T-1 and T-2) were installed in the release extent to 3.0-3.5 feet bgs. Four (4) sample trenches (North, South, East, and West) were installed along the perimeter of the release in order to evaluate the horizontal extent of the release. Initial assessment sampling locations are shown in Figure 3.

A total of seventeen (17) soil samples were collected from the six (6) trenches and sent to Xenco Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M and BTEX via EPA Method 8261B.

Analytical results from the August 2017 initial assessment activities are summarized in Table 1. BTEX concentrations exceeded the Site RRAL of 50 mg/kg in soils from 1-3 feet bgs at sample location T-1. TPH concentrations exceeded the Site RRAL of 100 mg/kg in soils from 1-3 feet bgs at sample location T-1 and at the surface and in soils from 2-3.5 feet bgs at sample location T-2. Additionally, the surface soil sample at the sample location North exceeded the TPH RRAL of 100 mg/kg. There were no analytical results which exceeded the chloride RRAL of 600 mg/kg during the August 2017 sampling event.

Tetra Tech returned to the Site in October 2017 to complete vertical delineation of the release in the area of T-1. One borehole (BH-1) was installed using a truck-mounted drilling rig to a depth of 15 feet bgs. The additional soil boring location is shown in Figure 3. A total of five (5) samples were collected from the boring and sent to Xenco Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M and BTEX via EPA Method 8261B.

Analytical results from the October 2017 assessment activities are summarized in Table 1. Analytical results associated with the 0-1 foot bgs sample slightly exceeded the TPH RRAL of 100 mg/kg. All other analytical results were below Site RRALs for all constituents.

On behalf of Concho, Tetra Tech prepared a Closure Report dated December 4, 2017 that summarized the initial assessment activities and requested closure for the release based on the analytical results and a proposed TPH RRAL of 5,000 mg/kg. A copy of the 2017 Closure Report is available in the NMOCD online incident files.

The NMOCD rejected the 2017 Closure Report in an email from Ashley Maxwell dated November 30, 2022 with the following comments:

- *“Closure denied. The area of release was not fully delineated. TPH exceeds closure criteria.*
- *Complete remedial and closure activity in accordance to 19.15.29 NMAC.*
- *Submit a work plan or closure report to the OCD permitting portal by March 1, 2023.”*

A request for an extension to June 1, 2023 was approved by Ashley Maxwell via email dated February 28, 2023. A copy of the regulatory correspondence is included in Appendix C.

2023 ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

The initial reported release extent was assessed during the first site mobilization for additional assessment. Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips to evaluate current conditions within and around the release footprint and assess remaining concentration levels in soil. On March 7, 2023, Tetra Tech oversaw the installation of four (4) borings (BH-23-1 through BH-23-4) using an air rotary drill rig. Two borings (BH-23-1 and BH-23-2) were installed to 4 feet bgs north of the reported release extent to complete horizontal delineation. Two borings (BH-23-3 and BH-23-4) were installed to 20 feet bgs in the reported locations of the previously sampled trenches (T-1 through T-2) to complete vertical delineation of the release. The March 2023 boring locations are indicated on Figure 4.

A total of twenty-two (22) soil samples were collected from the two borings and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results from the 2023 additional assessment activities are summarized in Table 2. All analytical results were below the applicable Site RRALs for all constituents. No visible evidence of the reported release extent was observed during the 2023 sampling event. However, minor soil staining was observed in the flare pit and in a portion of the lease pad, in the areas indicated on Figure 4. Photographic documentation of the release Site is presented in Appendix E. The reported release extent was horizontally and vertically delineated.

Upon further review of the NMOCD rejection of the 2017 Closure Report, Tetra Tech reviewed the collected data and information associated with the release. Concho documents associated with the incident indicated that the release originated at the flare and 95% of the released fluids were contained in berm with the exception of 1 bbl outside of the berm. The extent was noted as 20 feet by 20 feet by 3 inches inside the berm and 10 feet by 2 feet by 3 inches on the caliche pad.

Following a review of all release documentation, including the results of the March 2023 soil sampling activities, Tetra Tech returned to the Site to collect additional soil samples at these areas on the lease pad and in the flare pit. On April 18, 2023, Tetra Tech installed four hand auger borings (AH-2, AH-4, AH-5, and AH-6) and oversaw the installation of one trench (T-23-1). Boring AH-2 was installed within the flare pit and trench T-23-1 was installed on the lease pad in the area of observed staining. The flare was active at the time of the assessment, and auger refusal was encountered at approximately 2-3 feet bgs. Trenching inside the berm was not feasible, given the guy wires and associated safety concerns for personnel working beneath an active flare. The April 2023 locations are indicated on Figure 4.

A total of eight (8) soil samples were collected from the hand auger borings and trench and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results from the 2023 additional assessment activities are summarized in Table 2. Analytical results associated with hand auger boring AH-2, located within the flare pit, exceeded the Site RRAL for TPH of 100 mg/kg in the 0-1 foot and 2-2.5 foot sampling intervals. All other analytical results were below the applicable Site RRALs for all constituents.

CONCLUSION

All analytical results associated with 2023 additional assessment perimeter locations were below the Site RRALs; therefore, horizontal delineation was achieved per the NMOCD directive. Given the age of the

Release Characterization and Deferral Request
May 15, 2023

ConocoPhillips

release and the results of the 2023 sampling activities, it appears that natural attenuation of hydrocarbons has occurred in the previously identified release extent.

Based on the results of the additional release delineation and characterization, ConocoPhillips respectfully requests deferral of the remaining TPH impacts present within the flare pit. Delineation is not currently feasible, given the active production flare. The remediation within the flare pit is requested to be deferred until the equipment is removed during other operations. The remaining impacts do not cause an imminent risk to human health, the environment, or ground water.

Remediation and final reclamation shall take place in accordance with 19.15.29.13 NMAC once the Site is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 739-7874.

Sincerely,
Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Moises Cantu Garcia, PBU – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Approximate Release Extent and Additional Assessment

Tables:

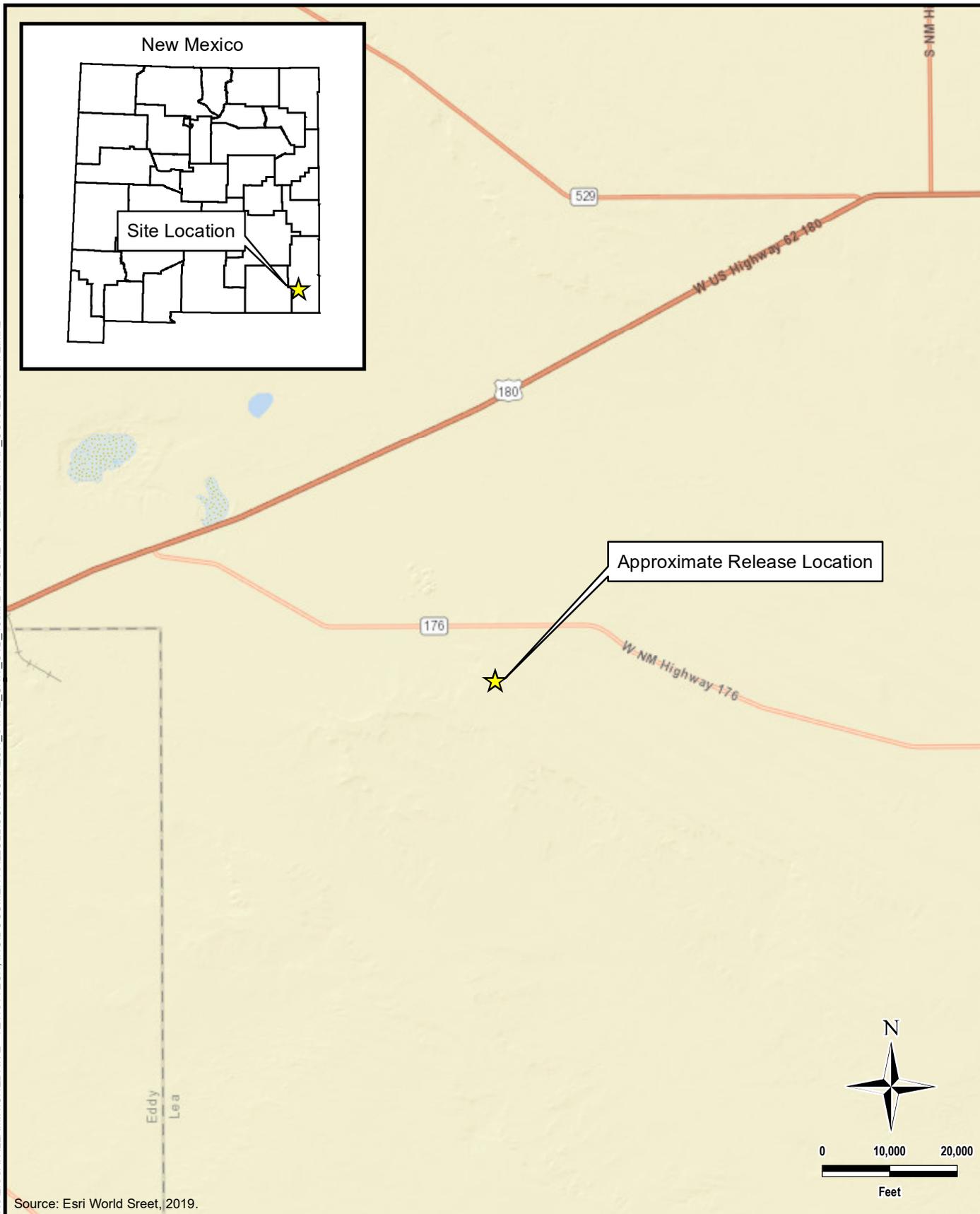
- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Additional Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – NMOCD Correspondence
- Appendix D – Laboratory Analytical Data
- Appendix E – Photographic Documentation

FIGURES

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH, INC\DOCUMENTS\111111\COP\CORAZON STATE_UNIT_CTB_10\MXD\FIGURE 1 OVERVIEW MAP - CORAZON STATE.MXD



Source: Esri World Sreet, 2019.



TETRA TECH

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CONOCOPHILLIPS

NOY1719554100
(32.5002861°, -103.5625153°)
LEA COUNTY, NEW MEXICO

**CORAZON STATE UNIT CTB SEC 10
OVERVIEW MAP**

PROJECT NO.: 212C-MD-02991

DATE: MARCH 20, 2023

DESIGNED BY: LMV

Figure No.

1

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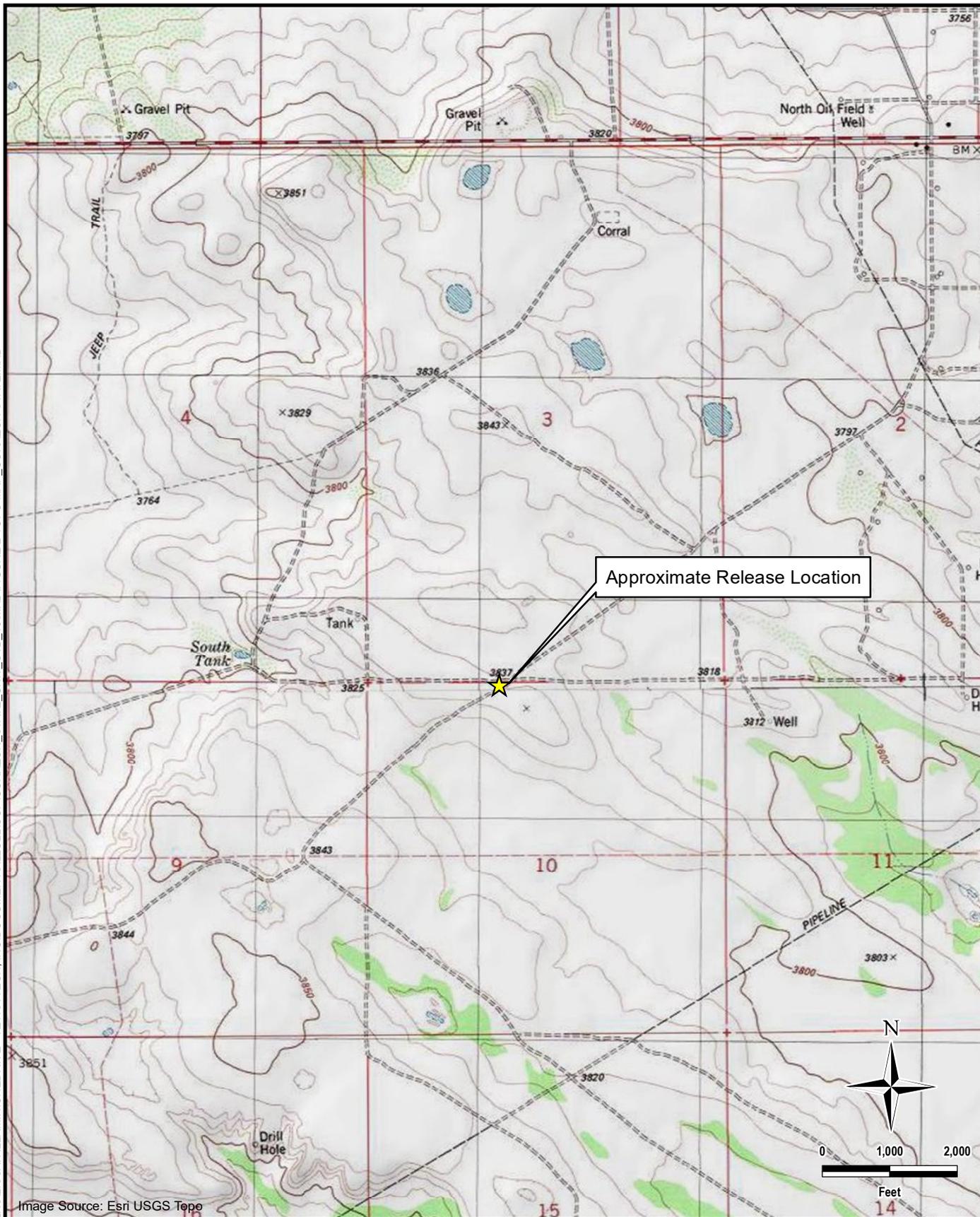


Image Source: Esri USGS Topo



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**CORAZON STATE UNIT CTB SEC 10
TOPOGRAPHIC MAP**

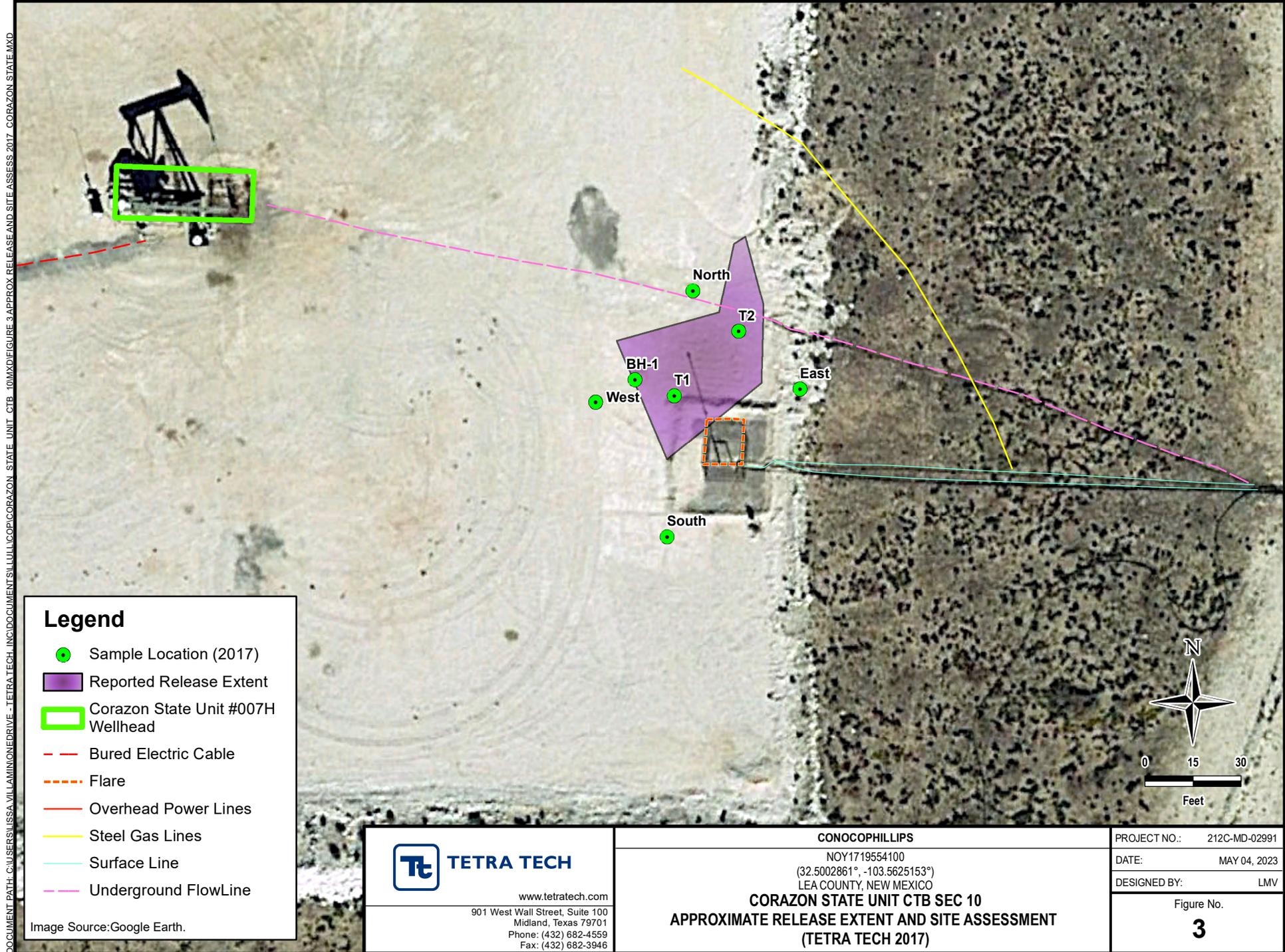
PROJECT NO.: 212C-MD-02991

DATE: MARCH 20, 2023

DESIGNED BY: LMV

Figure No.

2



DOCUMENT PATH: C:\USERS\HSSA\ILLAMINON\DRIVE - TETRA TECH, INC\DOCUMENTS\ILLU\COPI\CORAZON STATE UNIT CTB 10\MXD\FIGURE 3 APPROX RELEASE AND SITE ASSESS 2017 CORAZON STATE.MXD

Legend

- Sample Location (2017)
- Reported Release Extent
- Corazon State Unit #007H Wellhead
- Bured Electric Cable
- Flare
- Overhead Power Lines
- Steel Gas Lines
- Surface Line
- Underground FlowLine

Image Source: Google Earth.

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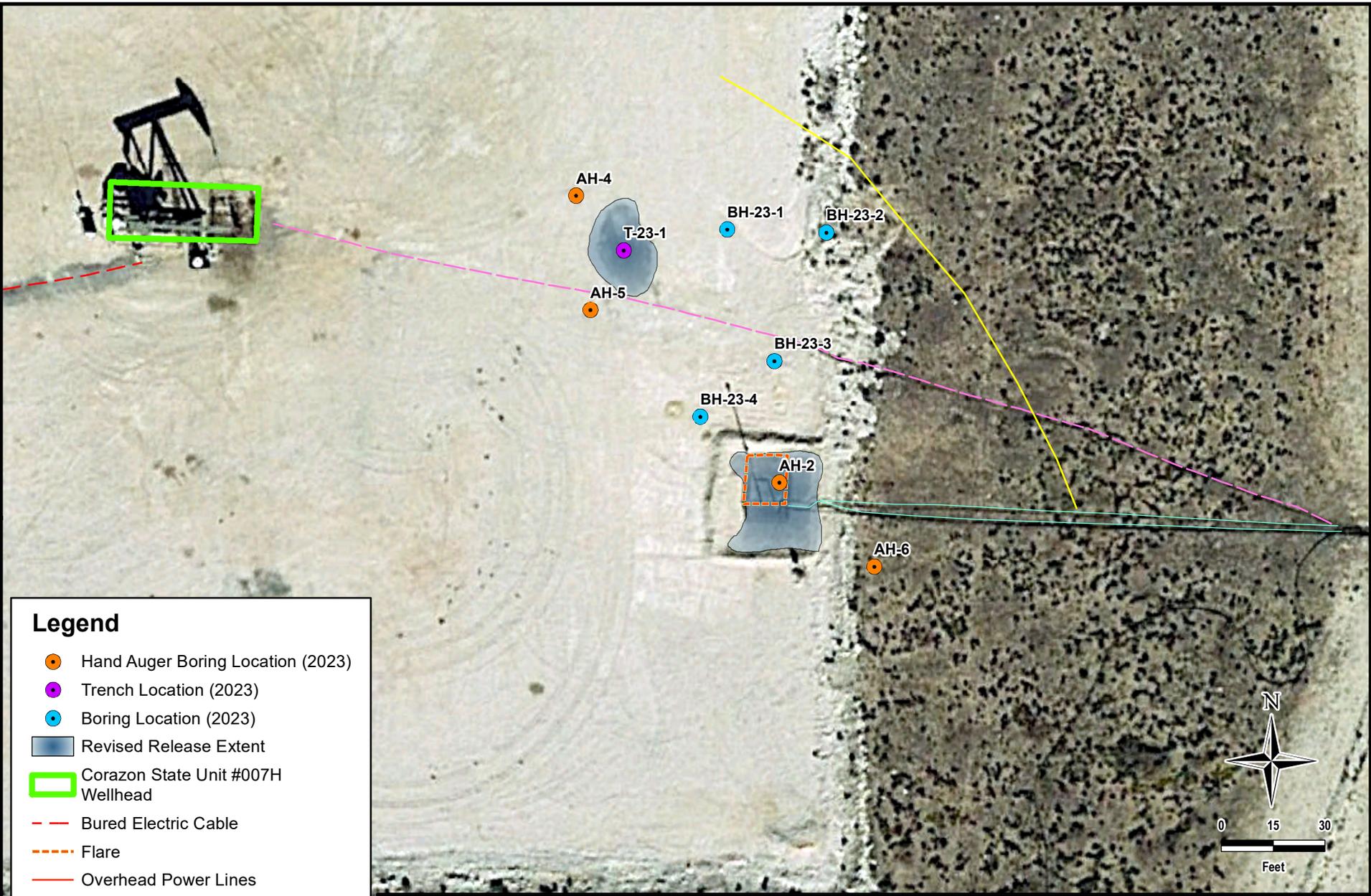
CONOCOPHILLIPS

NOY1719554100
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LEA COUNTY, NEW MEXICO

**CORAZON STATE UNIT CTB SEC 10
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT
(TETRA TECH 2017)**

PROJECT NO.:	212C-MD-02991
DATE:	MAY 04, 2023
DESIGNED BY:	LMV
Figure No.	3

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Legend

- Hand Auger Boring Location (2023)
- Trench Location (2023)
- Boring Location (2023)
- Revised Release Extent
- Corazon State Unit #007H Wellhead
- - - Bured Electric Cable
- - - Flare
- Overhead Power Lines
- Steel Gas Lines
- Surface Line
- - - Underground FlowLine

Image Source: Google Earth.

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CONOCOPHILLIPS

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**CORAZON STATE UNIT CTB SEC 10
APPROXIMATE RELEASE EXTENT AND ADDITIONAL ASSESSMENT
(TETRA TECH 2023)**

PROJECT NO.:	212C-MD-02991
DATE:	MAY 04, 2023
DESIGNED BY:	LMV
Figure No.	4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2017 INITIAL SOIL ASSESSMENT - nOY1719554100
CONOCOPHILLIPS
CORAZON STATE UNIT CTB SEC 10
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²												TPH ³									
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
NORTH	8/8/2017	SURFACE	34.1		<0.00198	U	<0.00198	U	<0.00198	U	<0.00397	U	<0.00198	U	<0.00198	U	<15.0	U	303	U	188	U	491	U		
		1	42.0		<0.00199	U	<0.00199	U	<0.00199	U	<0.00398	U	<0.00199	U	<0.00199	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
SOUTH	8/8/2017	SURFACE	<4.90	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00402	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
		1	<4.90	U	<0.00202	U	<0.00202	U	<0.00202	U	<0.00404	U	<0.00202	U	<0.00202	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
EAST	8/8/2017	SURFACE	<4.94	U	<0.00200	U	<0.00200	U	<0.00200	U	<0.00401	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
		1	<4.92	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00402	U	<0.00201	U	<0.00201	U	<14.9	U	<14.9	U	<14.9	U	<14.9	U		
WEST	8/8/2017	SURFACE	34.9		<0.00362	U	<0.00362	U	<0.00362	U	<0.00725	U	<0.00362	U	<0.00362	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
		1	122		<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<0.00199	U	<15.0	U	<15.0	U	<15.0	U	<15.0	U		
T-1	8/8/2017	SURFACE	56.4		0.0361		0.0609		0.0102		0.0254		0.00759		0.033		0.14		<15.0	U	55.9		19.7		75.6	
		1	249		6.00		73.5		41.8		128		14.7		143		264		3,460		8,560		1,480		13,500	
		2	404		31.6		189		104		304		37.8		342		666		8,350		15,700		2,830		26,900	
		3	318		29.6		198		112		313		31.9		345		685		7,370		15,700		2,430		25,500	
T-2	8/8/2017	SURFACE	116		0.0348		0.193		0.183		0.518		0.139		0.657		1.07		51.3		806		131		988	
		1	287		0.0114		0.0338		0.0190		0.0548		0.0150		0.0698		0.134		<15.0	U	46.4		<15.0	U	46.4	
		2	49.9		0.0253		0.131		0.103		0.281		0.102		0.383		0.642		18.4		119		<15.0	U	137	
		3	49.2		0.737		6.26		6.59		16.2		4.90		21.1		34.7		405		1,470		235		2,110	
		3.5	72.7		<0.397	U	1.40		2.59		7.92		2.66		10.6		14.6		198		797		133		1,130	
BH #1	10/12/2017	0-1	NA		<0.00200	U	<0.00200	U	<0.00200	U	<0.00401	U	<0.00200	U	<0.00200		<15.0	U	88.0		23.1		111			
		2-3	NA		<0.00198	U	<0.00198	U	<0.00198	U	<0.00397	U	<0.00198	U	<0.00198		<15.0	U	73.0		18.5		91.5			
		4-5	NA		<0.00198	U	<0.00198	U	<0.00198	U	<0.00395	U	<0.00198	U	<0.00198		<15.0	U	15.7		<15.0	U	<15.7	U		
		6-7	NA		<0.00198	U	<0.00198	U	<0.00198	U	<0.00397	U	<0.00198	U	<0.00198		<15.0	U	<15.0	U	<15.0	U	<15.0	U		
		14-15	NA		<0.00198	U	<0.00198	U	<0.00198	U	<0.00396	U	<0.00198	U	<0.00198		<14.9	U	<14.9	U	<14.9	U	<14.9	U		

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil Range Hydrocarbons
- NS Sample not analyzed for parameter
- 1 EPA Method 300.0
- 2 EPA Method 8021B
- 3 Method SW8015 Mod
- NA Analyte not analyzed for parameter

Bold and italicized values indicate exceedance of proposed RRALs.

QUALIFIERS: U Analyte was not detected

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 2023 ADDITIONAL SOIL ASSESSMENT- nOY1719554100
 CONOCOPHILLIPS
 CORAZON STATE UNIT CTB SEC 10
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²								TPH ³								
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BH-23-1	3/7/2023	0-1	-	0.0	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	-	0.0	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	-	7.8	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
BH-23-2	3/7/2023	0-1	-	16.1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	-	1.8	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	-	0.9	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
BH-23-3	3/7/2023	0-1	-	9.5	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	-	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	-	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6	-	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		7-8	-	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		9-10	-	13.0	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		14-15	-	2.1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
BH-23-4	3/7/2023	0-1	-	1.1	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	-	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		5-6	-	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		7-8	-	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		9-10	-	6.0	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		14-15	-	0.0	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-2	4/18/2023	0-1	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		54.4		1,050		175		1,279
		2-2.5	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		41.6		1,350		264		1,656
AH-4	4/18/2023	0-1	277		96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-5	4/18/2023	0-1	420		288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-6	4/18/2023	0-1	97		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-23-1	4/18/2023	0-1	-		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	-		128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	-		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs.

APPENDIX A C-141 Forms

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: COG Operating LLC OGRID # 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Corazon State Unit CTB Sec 10	Facility Type: Tank Battery

Surface Owner: State	Mineral Owner: State	API No.
----------------------	----------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	10	21S	33E					Lea

Latitude 32.5002861 Longitude -103.5625153

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 19 bbls Oil	Volume Recovered: 16 bbls Oil
Source of Release: Flare	Date and Hour of Occurrence: July 9, 2017 10:00 am	Date and Hour of Discovery: July 9, 2017 10:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:57 pm, Jul 14, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The release was due to a valve being left in the wrong position resulting in fluid being sent to the flare. The valve was placed in the correct position.

Describe Area Affected and Cleanup Action Taken.*
The release occurred on location within the unlined berm surrounding the flare. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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

Signature: <i>Dakota Neel</i>	OIL CONSERVATION DIVISION	
Printed Name: Dakota Neel	Approved by Environmental Specialist: <i>dy</i>	
Title: HSE Coordinator	Approval Date: 7/14/2017	Expiration Date:
E-mail Address: dneel2@concho.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: July 14, 2017 Phone: 575-746-2010		

Attach Additional Sheets If Necessary

1RP-4757 fOY1719554031 nOY1719554100
pOY1719554003

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/14/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4757 has been assigned. **Please refer to this case number in all future correspondence.**

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 8/14/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

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

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

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

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

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Moises H Cantu Garcia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 05/16/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: Moises H Cantu Garcia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 05/16/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Ashley Maxwell Date: _____

APPENDIX B

Site Characterization Data

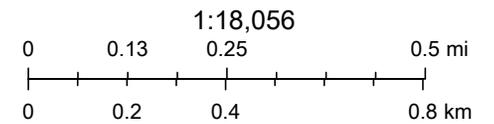
Water Bodies



3/23/2023, 4:04:00 PM

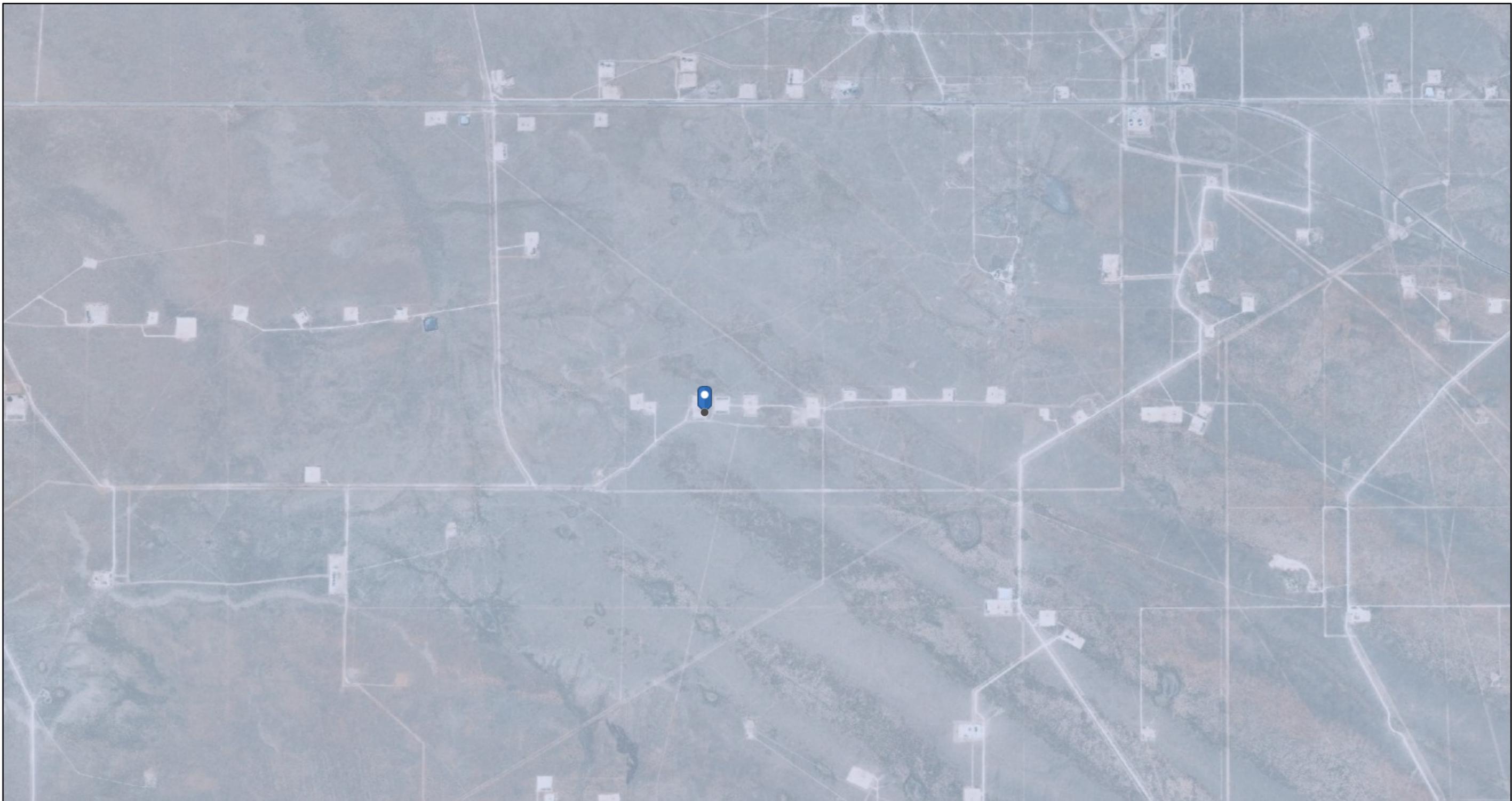
 Override 1

 OSW Water Bodys



Esri, HERE, Garmin, iPC, Maxar, NM OSE

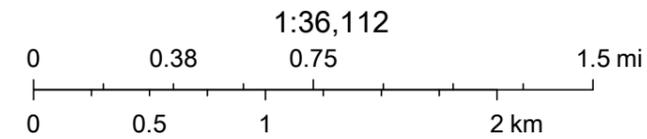
OCD Karst Potential Map



2/8/2023, 2:27:51 PM

Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Maxar



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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00801 POD1	CP	LE		3	2	1	11	21S	33E	636555	3596549*	1497	200		
CP 00578	CP	LE			4	3	11	21S	33E	636674	3595445*	2087	165	150	15
CP 00797 POD1	CP	LE		1	2	4	02	21S	33E	637348	3597564*	2399	110		

Average Depth to Water: **150 feet**

Minimum Depth: **150 feet**

Maximum Depth: **150 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 635076.74

Northing (Y): 3596789.18

Radius: 2400

*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.

APPENDIX C

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Beauvais, Charles R](#)
Date: Wednesday, November 30, 2022 12:12:50 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nOY1719554100, for the following reasons:

- **Closure denied. The area of release was not fully delineated. TPH exceeds closure criteria.**
- **Complete remedial and closure activity in accordance to 19.15.29 NMAC.**
- **Submit a work plan or closure report to the OCD permitting portal by March 1, 2023.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 162538.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional IM-BNF.

Thank you,
Ashley Maxwell
Projects Environmental Specialist - A
505-635-5000
Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Maxwell, Ashley, EMNRD](#)
To: [Abbott, Sam](#)
Cc: [Llull, Christian](#); [Beauvais, Charles R](#)
Subject: RE: [EXTERNAL] Extension Request - Application ID 162538 (Incident ID nOY1719554100)
Date: Tuesday, February 28, 2023 10:30:25 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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

Good Morning,

Your request for an extension to June 1, 2023, is approved.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Tuesday, February 28, 2023 7:44 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>; Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Subject: [EXTERNAL] Extension Request - Application ID 162538 (Incident ID nOY1719554100)

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

Ms. Maxwell:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 1, 2023) to complete the remedial action and associated closure reporting for the Corazon State Unit CTB Sec 10 Release site (**nOY1719554100**).

ConocoPhillips recently received a large volume of NMOCD determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

Given the difficulties inherent with available resource allocation for several projects with similar

deadlines within a short period of time, this extension is required to safely complete remedial action. ConocoPhillips plans to conduct remediation in the coming month however, and once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

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

Sam

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

Tetra Tech, Inc. | *Leading with Science*[®] | OGA
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APPENDIX D

Laboratory Analytical Data



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

March 15, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: CORAZON STATE UNIT CTB SEC 10

Enclosed are the results of analyses for samples received by the laboratory on 03/09/23 14:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 1 (0-1') (H231097-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 1 (2'-3') (H231097-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	200	99.9	200	3.93	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	215	108	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 1 (3'-4') (H231097-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 2 (0-1') (H231097-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 2 (2'-3') (H231097-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 2 (3'-4') (H231097-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (0-1') (H231097-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (2'-3') (H231097-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (3'-4') (H231097-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (5'-6') (H231097-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (7'-8') (H231097-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (9'-10') (H231097-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (14'-15') (H231097-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 3 (19'-20') (H231097-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (0-1') (H231097-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (2'-3') (H231097-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (3'-4') (H231097-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (5'-6') (H231097-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.03	102	2.00	5.31	
Toluene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	3.42	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.05	103	2.00	1.90	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.24	104	6.00	2.12	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (7'-8') (H231097-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (9'-10') (H231097-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (14'-15') (H231097-21)

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/09/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: BH - 23 - 4 (19'-20') (H231097-22)

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	03/10/2023	ND	2.11	106	2.00	7.79	
Toluene*	<0.050	0.050	03/10/2023	ND	2.16	108	2.00	8.18	
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.17	108	2.00	4.08	
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.76	113	6.00	3.26	
Total BTEX	<0.300	0.300	03/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2023	ND	170	85.2	200	1.67	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	159	79.5	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		7-Mar		ANALYSIS REQUEST	
Project Manager: Sam Abbott		Company: Tetra Tech			
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Sam Abbott			
City: Austin		Address: EMAIL			
Phone #: (512)565-0190		City:			
Fax #: (512)565-0190		State:			
Project #: 212C-MID-02991		Project Owner: ConocoPhillips			
Project Location: Corazon State Unit CTB Sec 10		State: TX			
Project Location: Lea County, New Mexico		City: Zip:			
Sampler Name: Colton Bickerstaff		Phone #:			
Lab I.D.:		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:						
H931097	BH-23-1 (0-1)	G	1	X							3/7/2023	X	X	X	
	BH-23-1 (2-3)	G	1	X							3/7/2023	X	X	X	
	BH-23-1 (3-4)	G	1	X							3/7/2023	X	X	X	
	BH-23-2 (0-1)	G	1	X							3/7/2023	X	X	X	
	BH-23-2 (2-3)	G	1	X							3/7/2023	X	X	X	
	BH-23-2 (3-4)	G	1	X							3/7/2023	X	X	X	
	BH-23-3 (0-1)	G	1	X							3/7/2023	X	X	X	
	BH-23-3 (2-3)	G	1	X							3/7/2023	X	X	X	
	BH-23-3 (3-4)	G	1	X							3/7/2023	X	X	X	
	BH-23-3 (5-6)	G	1	X							3/7/2023	X	X	X	

Relinquished By: Colton Bickerstaff	Date: 3/9/23	Received By: S. Keene	Time: 1410	Observed Temp. °C: 4.9	Corrected Temp. °C: 4.3	Sample Condition: Cool Intact	Checked By: SK	Turnaround Time: Standard	Thermometer ID #113	Correction Factor -0.5°C
Relinquished By:	Date:	Received By:	Time:	Observed Temp. °C:	Corrected Temp. °C:	Sample Condition: Cool Intact	Checked By: (Initials)	Turnaround Time: Standard	Thermometer ID #113	Correction Factor -0.5°C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
 Project Manager: Sam Abbott
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: (512)565-0190 Fax #:
 Project #: 212C-MD-02991 Project Owner: ConocoPhillips
 Project Location: Corazon State Unit CTB Sec 10
 Project Name: Lea County, New Mexico
 Sampler Name: Colton Bickerstaff
 Lab I.D.:

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
BH-23-4 (14-15)	G I	1			X				X	3/7/2023		X	X	X	
BH-23-4 (19-20)	G I	1			X			X		3/7/2023		X	X	X	

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Relinquished By: Colton Bickerstaff
 Date: 3/9/23
 Received By: *Stocking*
 Date: 4/10
 Time: 4:30
 Observed Temp. °C: 4.9
 Corrected Temp. °C: 4.3
 Sample Condition: Cool In tact
 Checked By: *SR*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool In tact
 Thermometer ID #113
 Correction Factor -0.5°C
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com
 Add'l Phone #:
 REMARKS:

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

April 25, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: CORAZON STATE UNIT CTB SEC 10

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 2 (0-1') (H231906-01)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22		
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	GC-NC	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	GC-NC	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30		
Total BTEX	<0.300	0.300	04/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	54.4	10.0	04/24/2023	ND	177	88.4	200	5.03		
DRO >C10-C28*	1050	10.0	04/24/2023	ND	173	86.4	200	7.64		
EXT DRO >C28-C36	175	10.0	04/24/2023	ND						

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 2 (2'-2.5') (H231906-02)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22		
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	GC-NC	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30		
Total BTEX	<0.300	0.300	04/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 150 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/24/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	41.6	10.0	04/24/2023	ND	177	88.4	200	5.03		
DRO >C10-C28*	1350	10.0	04/24/2023	ND	173	86.4	200	7.64		
EXT DRO >C28-C36	264	10.0	04/24/2023	ND						

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 4 (0-1') (H231906-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 5 (0-1') (H231906-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 6 (0-1') (H231906-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: T - 23 - 1 (0-1') (H231906-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: T - 23 - 1 (2'-3') (H231906-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received:	04/19/2023	Sampling Date:	04/18/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	CORAZON STATE UNIT CTB SEC 10	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02991	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: T - 23 - 1 (3'-4') (H231906-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/24/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
Project Manager: Sam Abbott
Address:
City: State: Zip:
Phone #: Fax #:

Project #: 2126-MD-02991 Project Owner: CamcoPharms
Project Name: Carson State Unit STB Sec 10
Project Location: Lea County, NM
Sampler Name: Celina BIKERSTAFF

FOR LAB USE ONLY
Lab I.D. Sample I.D.
H231906

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL			
1	AH-2 (0-1')	5	1			X						4/19/23		TPH
2	AH-2 (21-25')	5	1			X						4/19/23		BTEX
3	AH-4 (0-1')	5	1			X						4/19/23		Chlorides
4	AH-5 (0-1')	5	1			X						4/19/23		
5	AH-6 (0-1')	5	1			X						4/19/23		
6	T-23-1 (0-1')	5	1			X						4/19/23		
7	T-23-1 (2-3')	5	1			X						4/19/23		
8	T-23-1 (3-4')	5	1			X						4/19/23		

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Relinquished By: [Signature] Date: 4/19/23 Received By: [Signature] Date: 4/19/23
Time: 1537 Received By: [Signature]

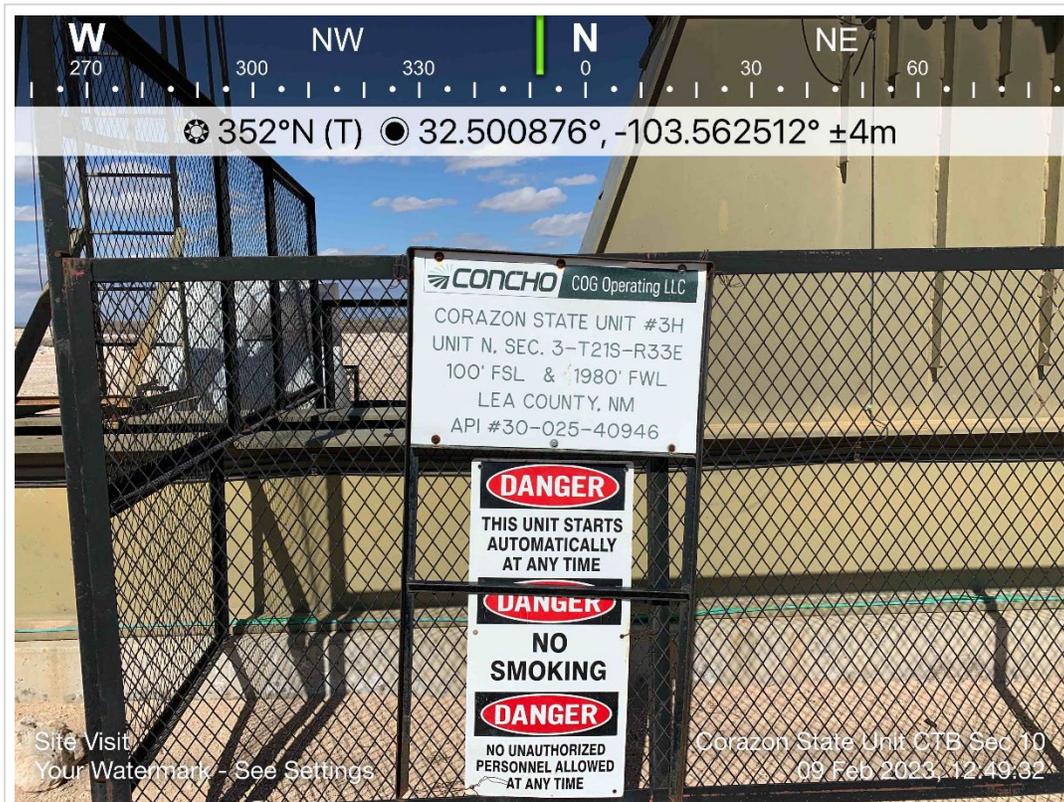
Delivered By: (Circle One) Observed Temp. °C 5.4 Sample Condition: Cool Intact Cool Fract No No
Sampler - UPS - Bus - Other: Corrected Temp. °C 4.8 Checked By: (Initials) [Signature]

Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Cool Intact Cool Fract No No Corrected Temp. °C

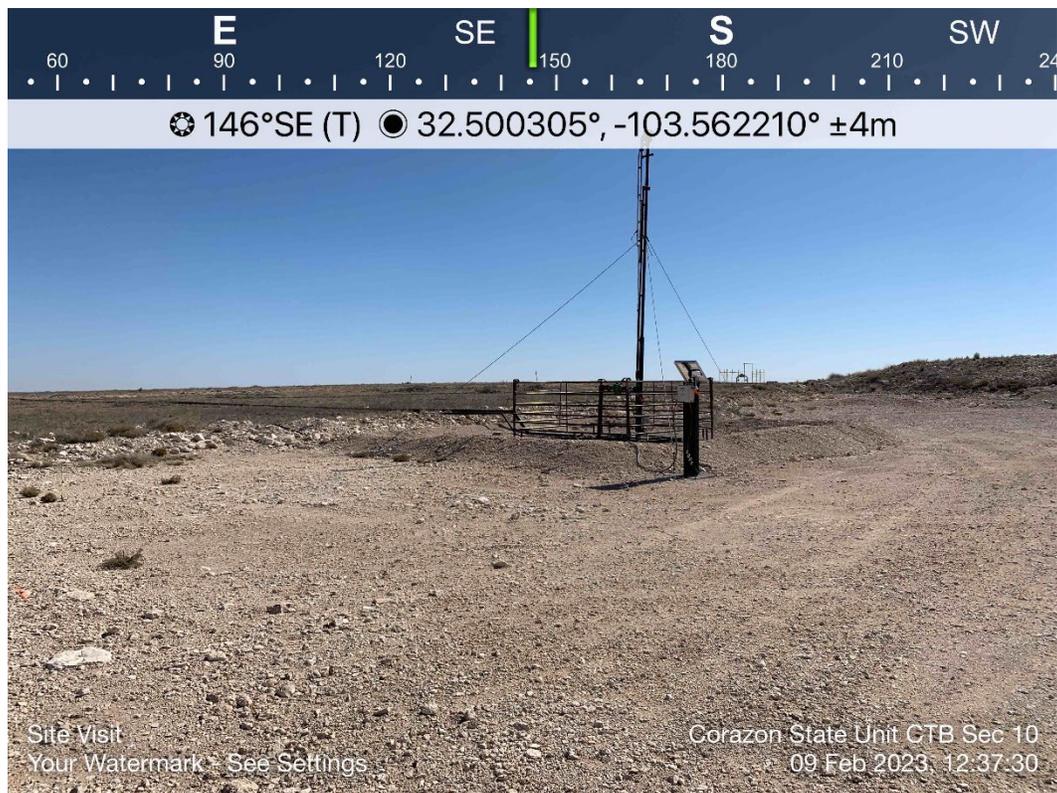
† Cardinal cannot accept verbal changes. Please email changes to celina.keene@cardinallabsnm.com

APPENDIX E

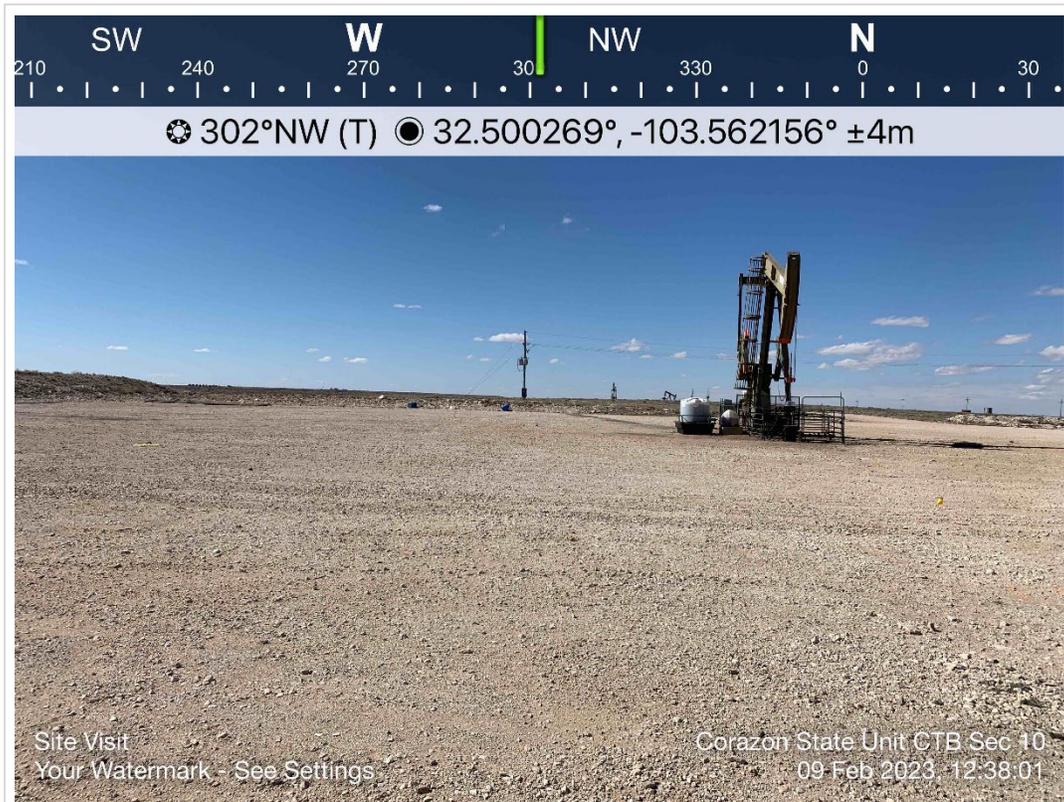
Photographic Documentation



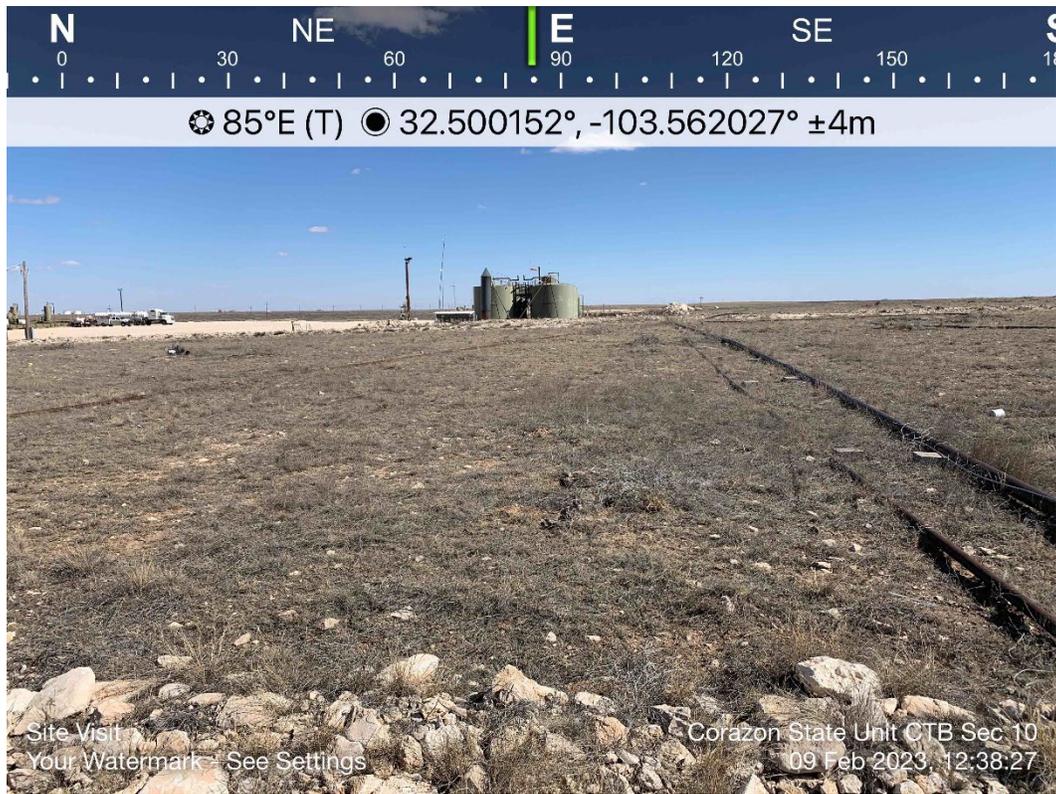
TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View north of lease pad signage.	1
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



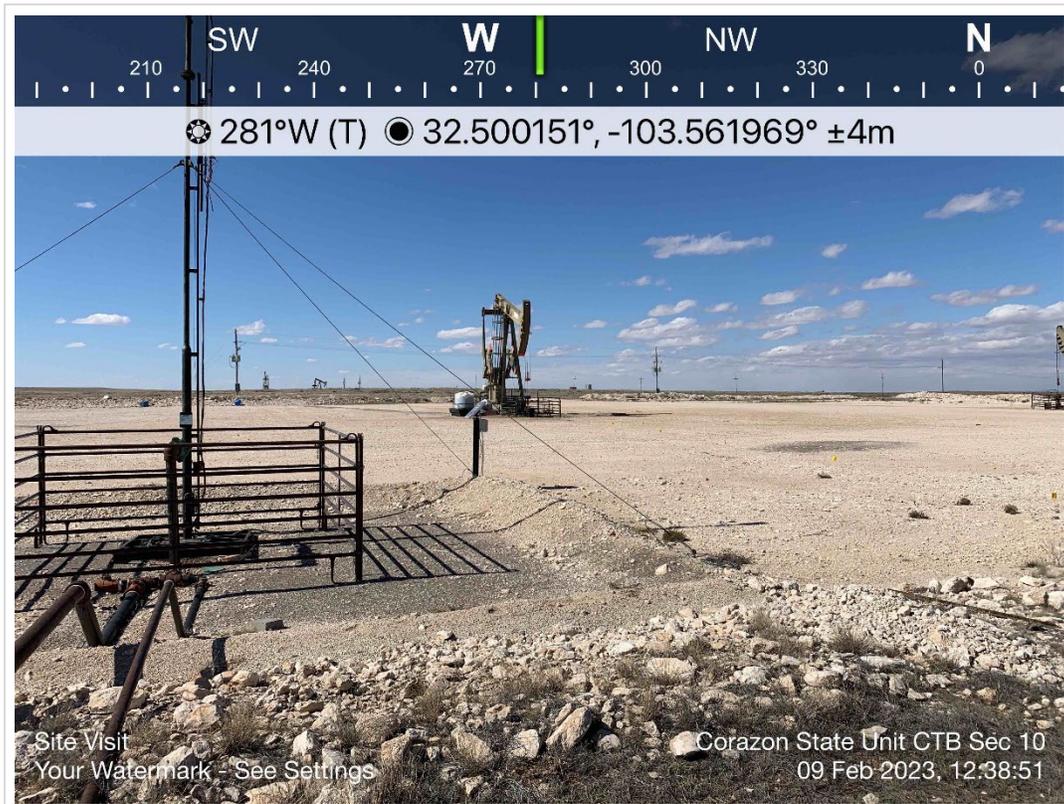
TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View southeast of flare and approximate release extent.	2
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View northwest of Site pad conditions. Pumping unit shown.	3
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



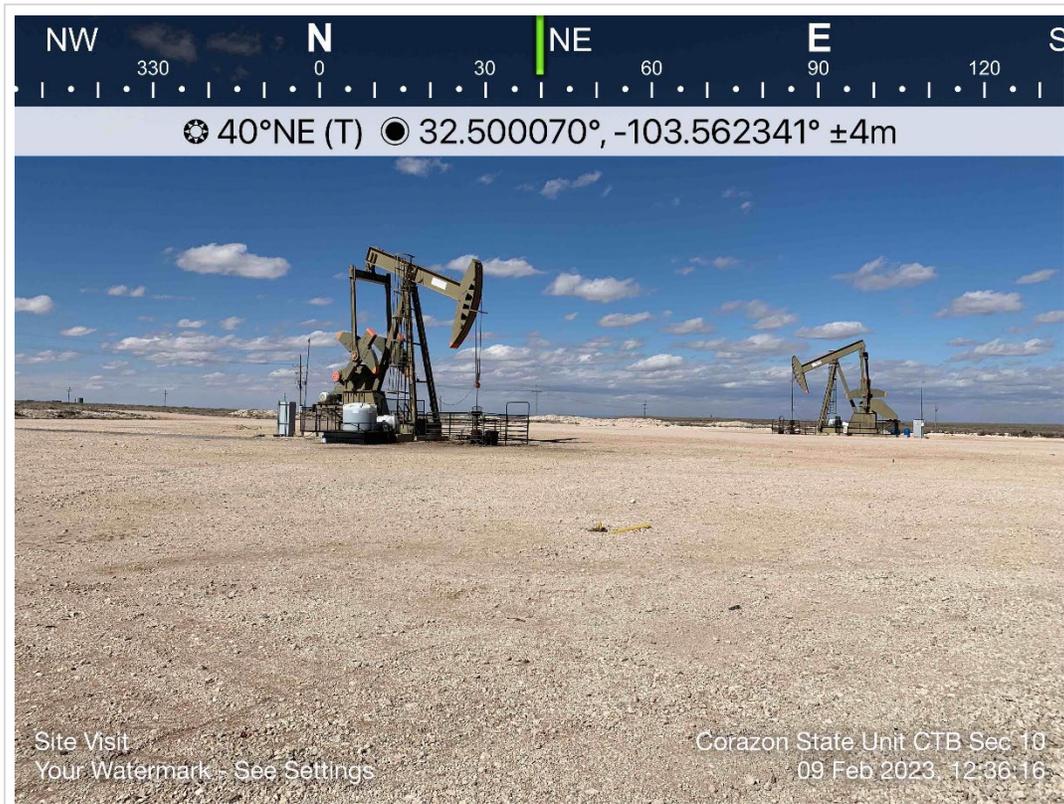
TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View east of pastureland and tank battery on east side of pad. Surface lines shown.	4
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View west of release extent. Pumping unit and unrelated pad staining shown.	5
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View southwest of release extent area on Site pad.	6
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View northeast of general Site conditions. Pumping units shown.	7
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View southeast of general Site conditions on pad.	8
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View northwest of general Site pad conditions.	9
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02991	DESCRIPTION	View east of general Site pad conditions.	10
	SITE NAME	Corazon State Unit CTB Sec 10 Release	2/9/2023

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

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

CONDITIONS

Action 217031

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 217031
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	5/31/2023
amaxwell	Remediation is to occur during any future major construction/alteration or final plugging and abandonment, whichever occurs first.	5/31/2023