TETRA TECH

June 12, 2024

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

Re: Release Characterization and Remediation Work Plan
ConocoPhillips Company
Gunner 8 Federal #008H Flowline
Unit Letter M, Section 8, Township 26 South, Range 34 East
Lea County, New Mexico
Incident ID# NAPP2400930878

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a release from a flowline associated with the Gunner 8 Federal #008H (API No. 30-025-40309). The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 8, Township 26 South, and Range 34 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.052130°, -103.498346°, as shown on Figures 1 and 2.

BACKGROUND

According to the C-141 Initial Report, the release was discovered on December 21, 2023, and was caused by faulty clamp on a poly water transfer line. Approximately 2.1934 barrels (bbls) of produced water were reported released. A vacuum truck was dispatched to recover freestanding fluids, and approximately 0.5 bbls of produced water were recovered. The release occurred off pad in pasture alongside the lease road, as shown in Figure 3. The New Mexico Oil Conservation Division (NMOCD) approved the initial C-141 on March 27, 2024, and subsequently assigned the release the Incident ID NAPP2400930878. The initial C-141 form is included in Appendix A.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on federal lands managed by the Bureau of Land Management (BLM). The BLM will be notified prior to any remedial activities commencing for this incident.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter (approximately 1/2-mile) radius of the site. According to the NMOSE, there is one well within 1.20 miles (1,935 meters) with a total well depth of 250 feet and a depth to water of 200 feet.

Tetra Tech
901 West Wall St., Suite 100, Midland, TX 79701
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As the available water level information is from a well farther than ½-mile away from the site, ConocoPhillips elected to drill a boring to verify depth to groundwater. The proposed location of the depth to groundwater boring is located on BLM lands. Tetra Tech contacted Shelly Tucker of the BLM via email to obtain approval of the location. An *Application for Permit to Drill* (WD-07) was submitted to the NMOSE on April 18, 2024. Approval was granted by the NMOSE on April 29, 2024; a copy of the approved permit and BLM approval is included in Appendix B.

On May 16, 2024, ConocoPhillips contracted a licensed well drilling subcontractor to drill a groundwater determination borehole (DTW) to 105 feet bgs at the Gunner 8 Federal #008H well pad located 147 meters north of the release footprint. The borehole was temporarily set and screened using 2-inch PVC well materials. No water was present in the well during or after drilling. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The borehole coordinates are 32.053208°, -103.499466°, and the boring location is indicated in Figure 3. The site characterization data, boring log, and temporary well diagram are included in Appendix C.

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 in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	20,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

SITE ASSESSMENT

On February 6, 2024, Tetra Tech was onsite to conduct assessment activities on behalf of ConocoPhillips. Assessment activities included installing four (4) hand auger borings (AH-1 through AH-4) in the release area to total depths ranging from 1.5 to 2.5 feet bgs. Auger refusal was met at roughly between 1.5 and 2.5 feet bgs. Four (4) additional hand auger borings (AH-4 through AH-8) were installed along the perimeter of the release extent to 1-foot bgs each. Photographic documentation of the release area is presented in Appendix D.

Due to the dense subsurface lithology (caprock) beneath the footprint, vertical delineation was not achieved with the hand auger borings. Tetra Tech remobilized to the Site on February 28, 2024, and installed one (1) trench (T-1) to 10 feet bgs using a backhoe to evaluate the vertical extents of the release footprint.

A total of seventeen (17) soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

An extension request for this incident was submitted to the NMOCD and approved on April 22, 2024, for a due date of June 18, 2024. Regulatory correspondence is included in Appendix B.

On May 16, 2024, Tetra Tech remobilized to the Site to install two additional borings (BH-1 and BH-2) using an air rotary drill rig within the release footprint in the pasture to 25 feet bgs each to complete vertical delineation of the release extent. A total of twelve (12) soil samples were sent to Cardinal to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix E. The sampling locations are presented in Figure 3.

SUMMARY OF RESULTS

The laboratory analytical results from the February and May 2024 assessment sampling activities are summarized in Table 1. Both, horizontal and vertical delineation were completed following the assessment activities. Analytical results associated with surface soil intervals (0-4 feet bgs) at AH-1, AH-2, BH-1, AH-3, T-1, AH-4 and BH-2 exceeded the reclamation limit for chloride (600 mg/kg). All other analytical results were below the applicable Site RRALs and reclamation limits.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 4. The release footprint with soil concentrations above the Site RRALs for chlorides will be excavated using heavy equipment (backhoes, hoe rams, and/or track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. Areas in close proximity to pressurized lines or other production equipment will be hand-dug to the maximum extent practicable and heavy equipment will come no more than 4 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. The responsible party will notify the OCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using a Notification of Sampling (C-141N) application.

Confirmation bottom and sidewall samples representative of no more than 400 square feet will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides as shown in Figure 5. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 80 cubic yards.

SITE RECLAMATION AND MONITORING PLAN

Based on 19.15.29.13 NMAC, all areas disturbed by the remediation and closure will be reclaimed once confirmation sampling results below the reclamation requirements (or RRALs for areas below 4 feet bgs) are received. Once acceptable confirmation sample results are received, the excavation will be backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area will contain a minimum of 4 feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0 or Method 4500. The soil cover will include a top layer consisting of 1 foot of suitable material to establish vegetation at the site.

The backfilled areas in the pasture will be seeded following backfilling, to aid in revegetation. Based on the soils of the site, areas will be seeded with the BLM seed mixture for LPC Sand/Shinnery Sites to aid in revegetation will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-

held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Reclamation activities will be implemented in consultation with the BLM. ConocoPhillips will notify the BLM when reclamation and revegetation are complete.

CONCLUSION

Based on the results of the 2024 release assessment and characterization, ConocoPhillips will remediate soils within the release extent impacted with chlorides and TPH above Site RRALs and reclamation limits. The proposed remediation activities will be conducted within 90 days of acceptance of the proposed plan. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 596-8201.

Sincerely,
Tetra Tech, Inc.

Lisbeth Chavira
Project Manager

Samantha K. Abbott, P.G.
Senior Project Manager

cc:
Mr. Mr. Jacob Laird, GPBU – ConocoPhillips

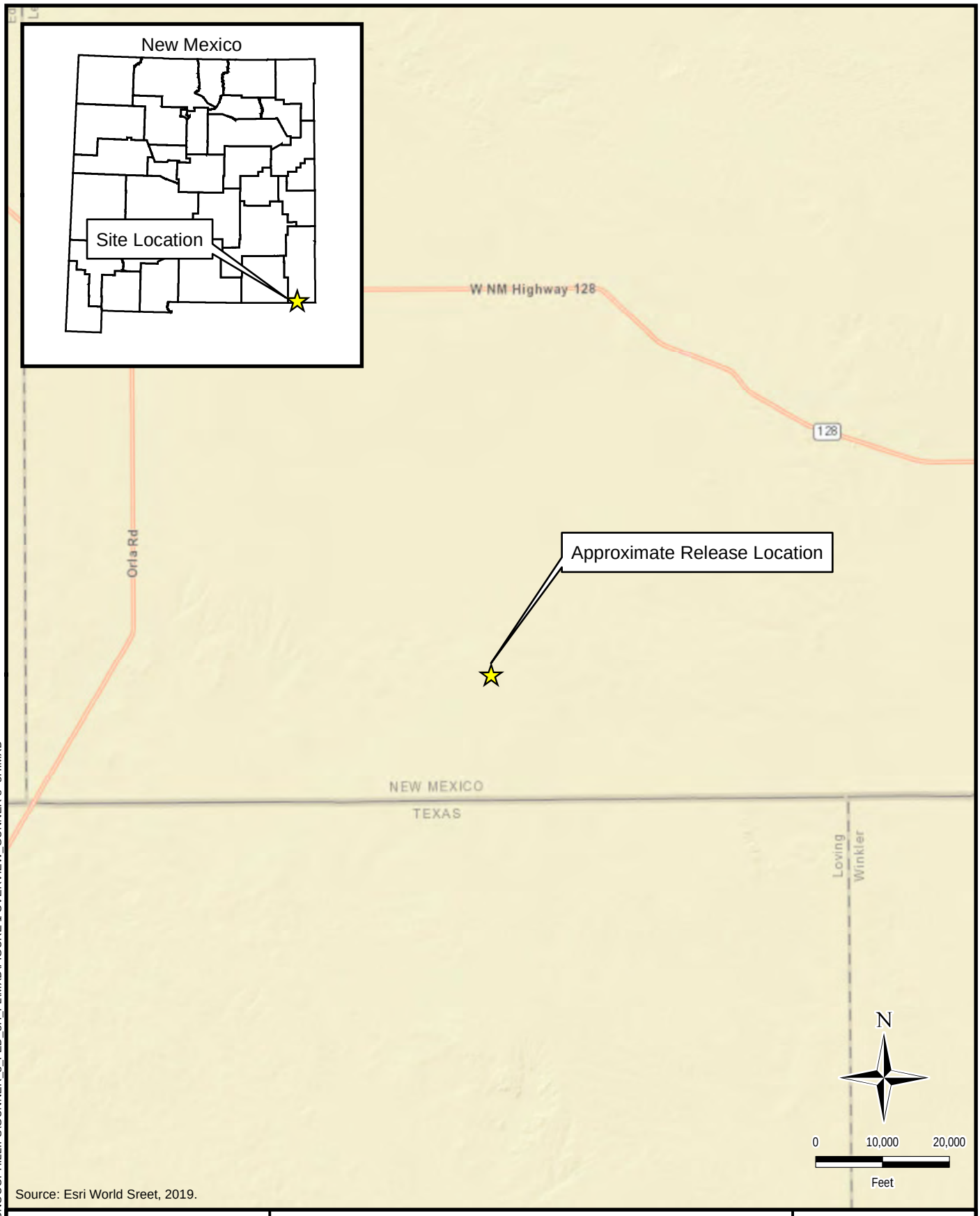
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



Source: Esri World Sreet, 2019.

DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER_8_FED_8H_FL\MXD\FIGURE 1 OVERVIEW_GUNNER 8- 8H.MXD

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CONOCOPHILLIPS

NAPP2400930878
LEA COUNTY, NEW MEXICO
(32.052130°,-103.498346°)

GUNNER 8 FEDERAL #008H FL
OVERVIEW MAP

PROJECT NO.:	212C-MD-03343
DATE:	JUNE 07, 2024
DESIGNED BY:	LMV

Figure No.
1

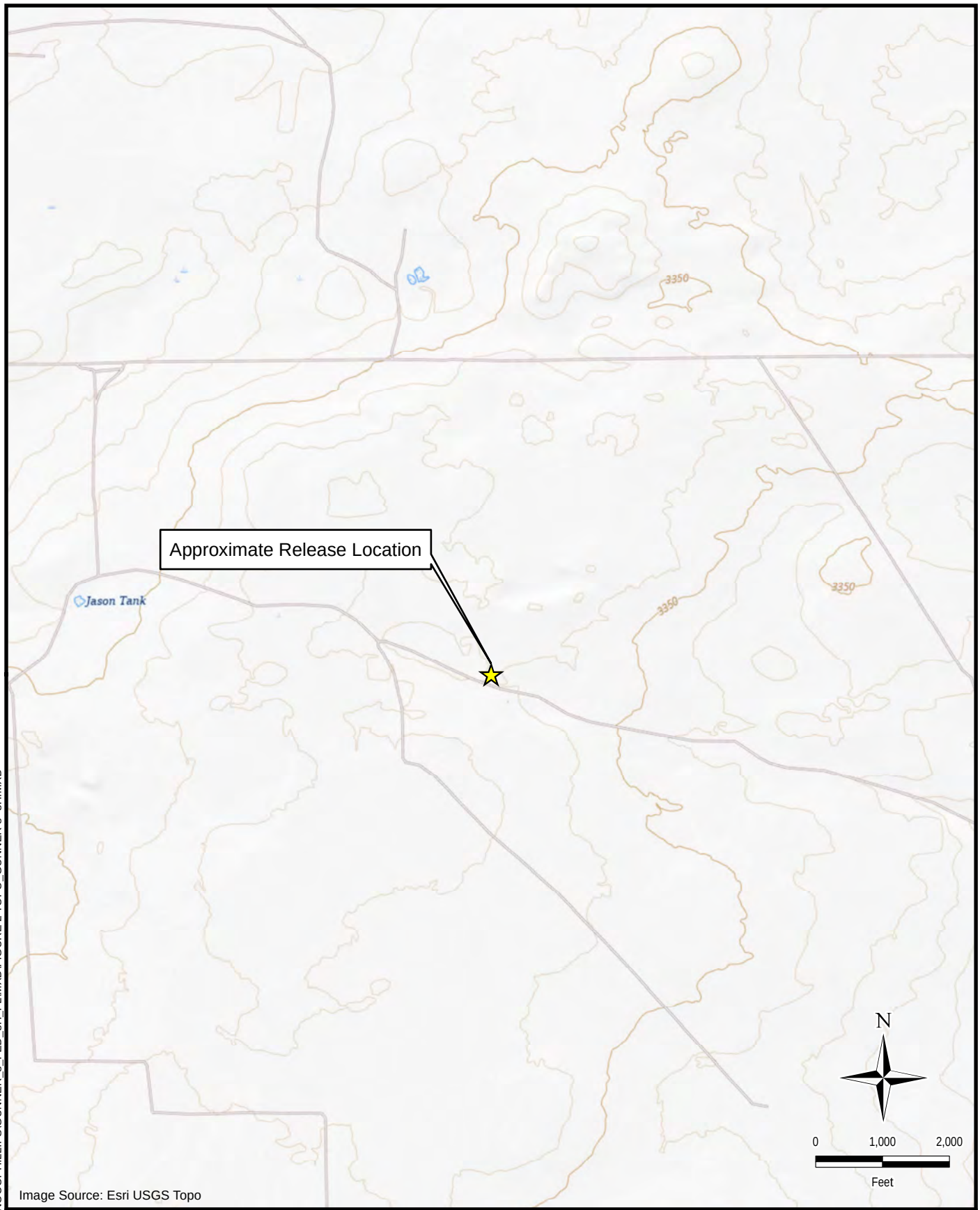

Image Source: Esri USGS Topo

DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER_8_FED_8H_FL\MXD\FIGURE 2 TOPO_GUNNER 8- 8H.MXD

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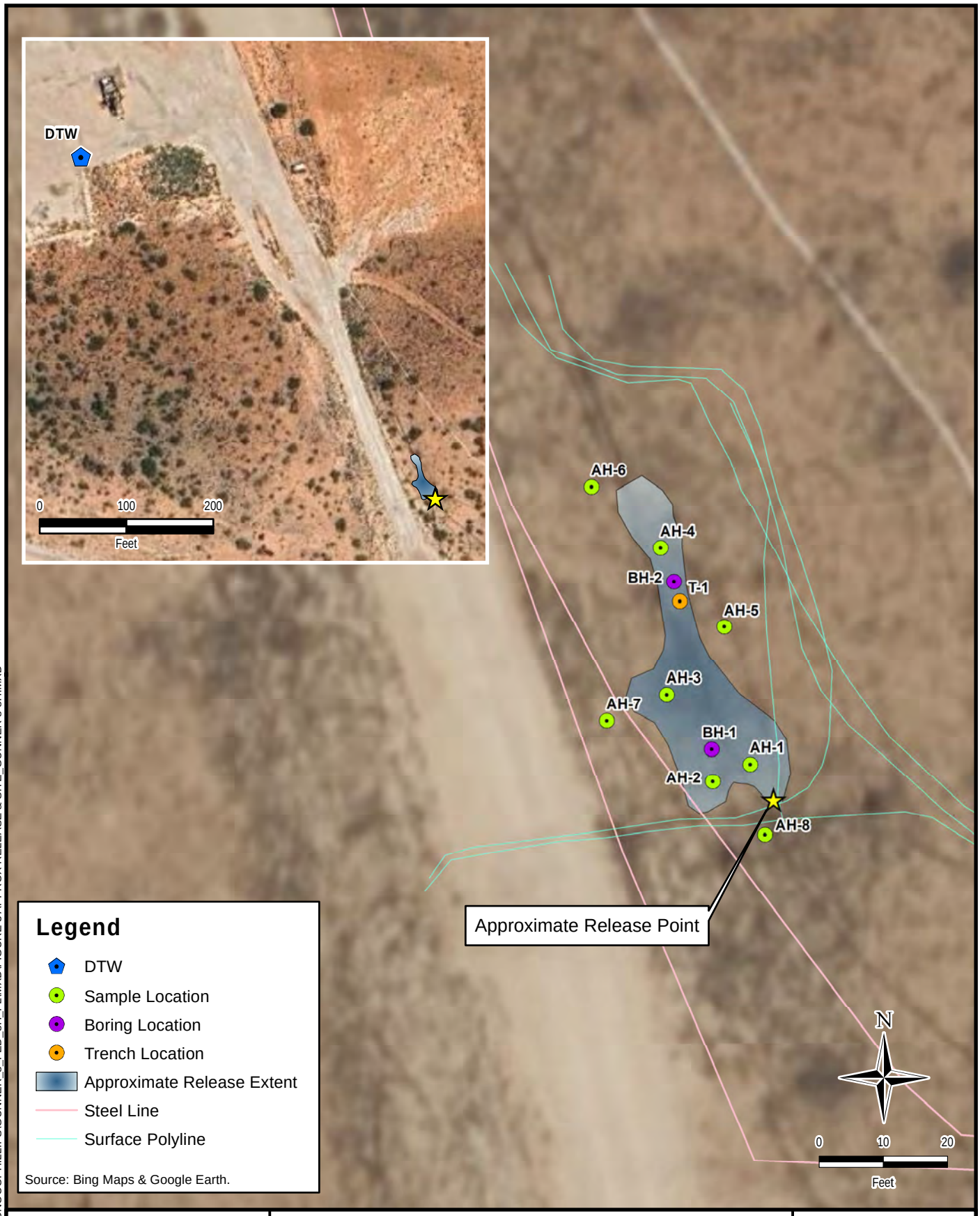
CONOCOPHILLIPS

NAPP2400930878
LEA COUNTY, NEW MEXICO
(32.052130°,-103.498346°)

GUNNER 8 FEDERAL #008H FL
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-03343
DATE:	JUNE 07, 2024
DESIGNED BY:	LMV

Figure No.
2



DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER_8_FED_8H_FL\MXD\FIGURE 3 APPROX RELEASE & SITE_GUNNER 8-8H.MXD

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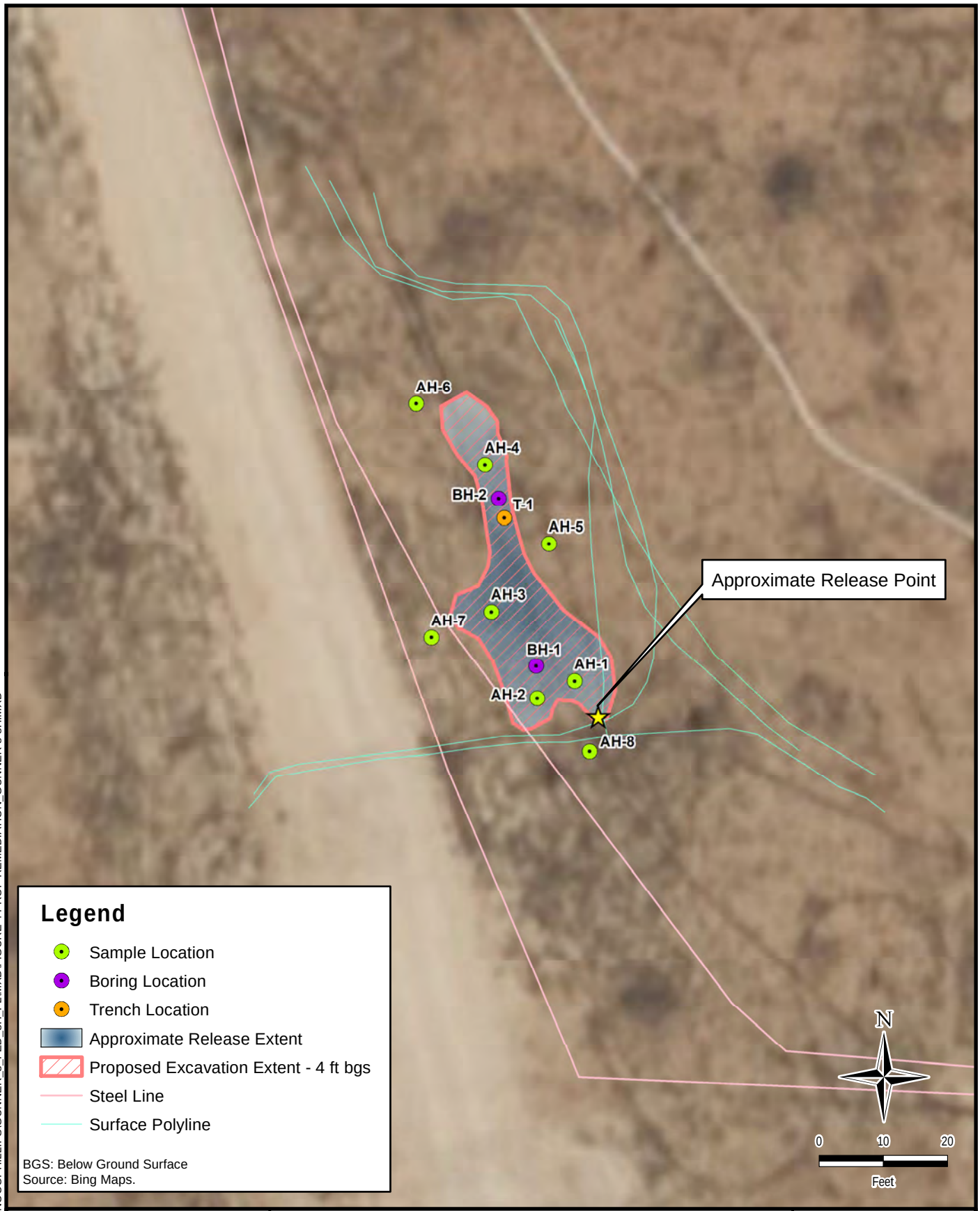
CONOCOPHILLIPS

NAPP2400930878
LEA COUNTY, NEW MEXICO
(32.052130°,-103.498346°)

GUNNER 8 FEDERAL #008H FL
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-03343
DATE:	JUNE 07, 2024
DESIGNED BY:	LMV

Figure No.
3



DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER_8_FED_8H_FL\MXD\FIGURE 4 PROP REMEDIATION_GUNNER 8-8H.MXD

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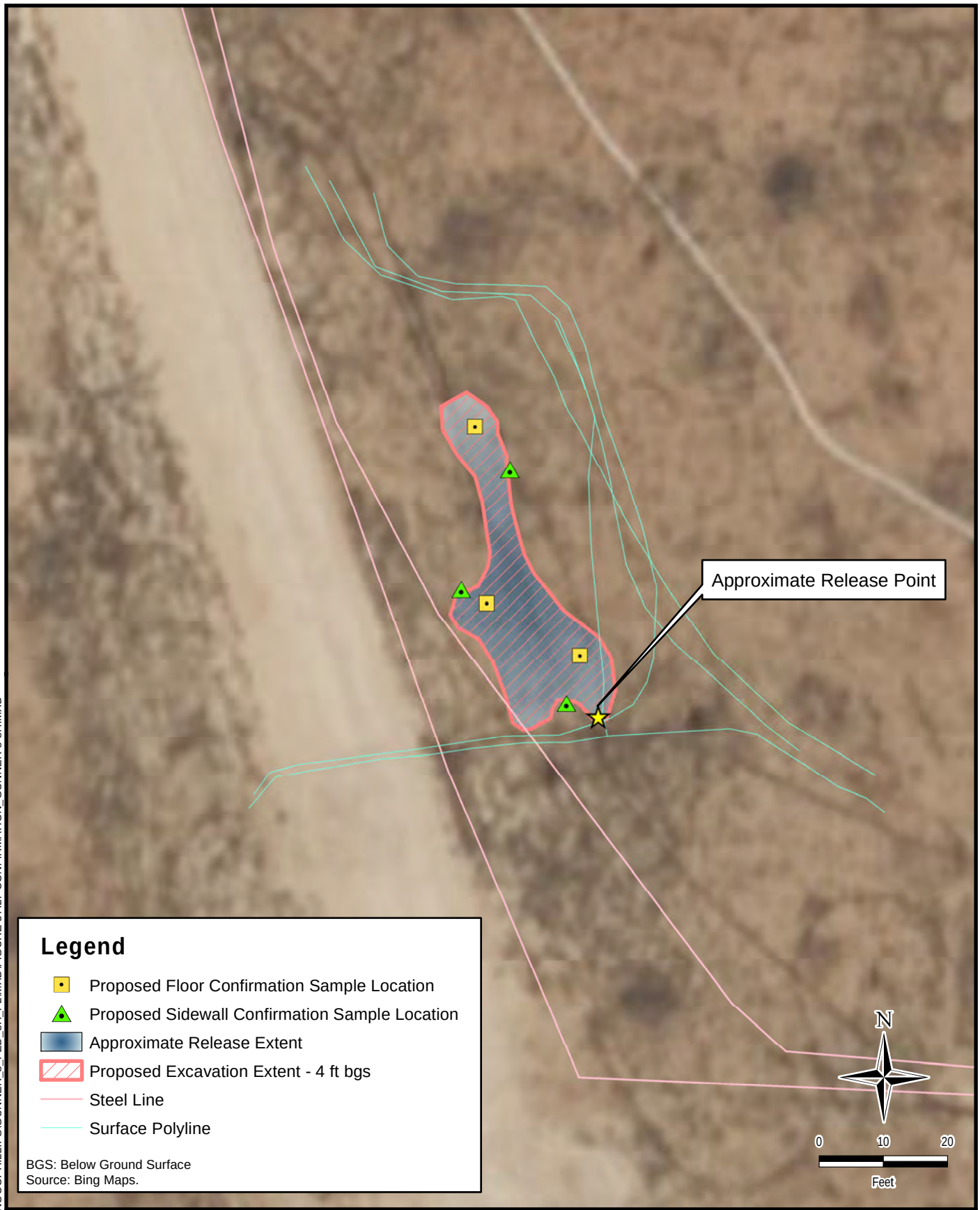
CONOCOPHILLIPS

NAPP2400930878
LEA COUNTY, NEW MEXICO
(32.052130°,-103.498346°)

GUNNER 8 FEDERAL #008H FL
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-03343
DATE:	JUNE 07, 2024
DESIGNED BY:	LMV

Figure No.
4



DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER_8_FED_8H_FL\MXD\FIGURE 5 ALT CONFIRMATION_GUNNER 8-8H.MXD

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CONOCOPHILLIPS

NAPP2400930878
LEA COUNTY, NEW MEXICO
(32.052130°,-103.498346°)

GUNNER 8 FEDERAL #008H FL
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-03343
DATE:	JUNE 12, 2024
DESIGNED BY:	LMV

Figure No.
5

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2400930878
CONOCOPHILLIPS
GUNNER 8 FEDERAL #008H FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
																	C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)
		ft. bgs	Chloride	PID	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
Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:					*600 mg/kg*		*< 10 mg/kg*		--		--		--		*< 50 mg/kg*		--		--		--		100 mg/kg
Closure Criteria for Soils >4' bgs (GW > 100 ft):					*20,000 mg/kg*		*< 10 mg/kg*		--		--		--		*< 50 mg/kg*		--		--		--		*2,500 mg/kg*
VERTICAL DELINEATION																								
AH-1	2/6/2024	0-1	-	-	***13,800***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		2-2.5	-	-	***16,000***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
AH-2	2/6/2024	0-1	-	-	***15,600***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		2-2.5	-	-	***10,000***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
BH-1	5/16/2024	3-4	-	-	***11,100***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		5-6	-	-	15,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		7-8	-	-	6,660		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		9-10	-	-	5,860		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		14-15	1,160	-	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		19-20	1,030	-	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		24-25	320	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
AH-3	2/6/2024	0-1	-	-	***14,800***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
T-1	2/28/2024	0-1	-	-	***7,860***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		2-3	-	-	***10,200***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		3-4	-	-	***12,000***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		5-6	-	-	11,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		7-8	-	-	1,260		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		9-10	-	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		270		195		465
AH-4	2/6/2024	0-1	4,100	-	***4,240***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		1-1.5	7,080	-	***4,240***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
BH-2	5/16/2024	3-4	-	-	***10,000***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		5-6	-	-	11,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		7-8	-	-	5,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		9-10	1,870	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
		14-15	482	-	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
HORIZONTAL DELINEATION																								
AH-5	2/6/2024	0-1	45.8	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
AH-6	2/6/2024	0-1	49.7	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
AH-7	2/6/2024	0-1	59.6	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
AH-8	2/6/2024	0-1	73.9	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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 and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Spill Calculation - Subsurface Spill - Rectangle								Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb - RMR Handover Volume, (yd^3.)
Rectangle A	6.0	23.0	1.5	Off-Pad	15.02%	3.07	0.46	0.80	
Rectangle B	17.0	16.0	2.5	Off-Pad	15.02%	10.09	1.52	2.62	
Rectangle C	5.0	13.0	1.5	Off-Pad	15.02%	1.45	0.22	0.38	
Rectangle D						0.00		0.00	
Rectangle E						0.00		0.00	750
Rectangle F						0.00		0.00	
Rectangle G						0.00		0.00	
Rectangle H						0.00		0.00	
Rectangle I						0.00		0.00	
						0.00		0.00	
					Total Subsurface Volume Released:		2.1934	3.80	BU

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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 301427

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 301427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2400930878**
Incident Name	**NAPP2400930878 GUNNER 8 FEDERAL 008H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2203943927] Gunner 8 Fed 8H - RT Btty**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Gunner 8 Federal 008H
Date Release Discovered	12/21/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 2 BBL | Recovered: 1 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 301427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/09/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 301427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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CONDITIONS

Action 301427

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 301427
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/27/2024

State of New Mexico
Oil Conservation Division

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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

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

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

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

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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: Jacob Laird _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: Jacob Laird _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B
Regulatory Correspondence

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 759161
File Nbr: C 04827

Apr. 29, 2024

CHRISTIAN LLULL
TETRA TECH ON BEHALF OF CONOCO PHILLIPS
8911 N CAPITAL OF TEXAS HIGHWAY
BLDG.2 SUITE 2319
AUSTIN, TX 78759

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.

* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.

* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.

* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Rodolfo Chavez
(575)622-6521

Enclosure

explore

File No. C-04827 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well*(Pump test)	☐ Construction Site/Public Works Dewatering	☒ Other(Describe):
☐ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

☐ Check here if the borehole is anything other than vertifical (directional boring or angle boring) and include a schematic of your design.

☒ Temporary Request - Requested Start Date: 5/1/2024 Requested End Date: 5/1/2025

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form. ☐

1. APPLICANT(S)

Name: Tetra Tech on behalf of ConocoPhillips	Name:
Contact or Agent: check here if Agent ☐ Christian Llull	Contact or Agent: check here if Agent ☐
Mailing Address: 8911 N. Capital of Texas Highway Bldg. 2 Suite 2310	Mailing Address:
City: Austin	City:
State: Zip Code: Texas 78759	State: Zip Code:
Phone: 512-565-0190 ☐ Home ☒ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): christian.llull@tetratech.com	E-mail (optional):

OSE DIT APR 19 2024 AM 11:24

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 02/29/2024

File No.: C-04827	Trn. No.: 759161	Receipt No.: 2-46814
Trans Description (optional):		
Sub-Basin: CUB	PCW/LOG Due Date: 4/29/25	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
DTW-GUNNER C-04827 POD1	32.053208	-103.499466	Unit Letter M, Section 8, Township 26 South, Range 34 East

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ■ No **If yes, how many**_____

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: BLM

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ☐ Yes ■ No
If yes, how many_____

Approximate depth of well (feet): 105	Outside diameter of well casing (inches): 2 in.
Driller Name: John Scarborough, Inc.	Driller License Number: WD1188

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

OSE DII APR 19 2024 AM11:24

Drilling temporary monitoring well to determine depth to groundwater.

The well will be installed on an active pad on BLM land. BLM was emailed on 3/26/2024 for access approval. BLM approved the DTW location on 4/3/2024 (attached).

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 02/29/2024

File No.: C-04827 POD1	Trn No.: 759161

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory*:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☒ NO If Yes, an application must be filed with NMED-DWB, concurrently. ☐ Include a description of any proposed pump test, if applicable. **Monitoring*:** ☐ Include the reason for the monitoring well, and, ☐ The duration of the planned monitoring.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of. **Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), CHRISTIAN LLULL
Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is: OSE DII APR 19 2024 AM 11:23

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 29th day of April 20 24, for the State Engineer,

MIKE A. HAMMAN, P.E., State Engineer

By: K. Parekh
Signature

KASHYAP PAREKH
Print

Title: WATER RESOURCE MANAGER I
Print

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 02/29/2024

File No: C-04827 POD1 Trn No: 759161

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

17-1A Depth of the well shall not exceed the thickness of the valley fill.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04827 POD1

File Number: C 04827
Trn Number: 759161

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.

17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.

17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

17-Q The State Engineer retains jurisdiction over this permit.

17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04827 POD1

File Number: C 04827
Trn Number: 759161

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04827 POD1 must be completed and the Well Log filed on or before 04/29/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 04/19/2024 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 29 day of Apr A.D., 2024

Mike A. Hamman, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH

Trn Desc: C 04827 POD1

File Number: C 04827
Trn Number: 759161

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ROSWELL OFFICE

OFFICIAL RECEIPT NUMBER: 2 - 46814 DATE: 4/19/20 FILE NO.: MW

TOTAL: 5.00 RECEIVED: Five +/100 DOLLARS CHECK NO.: 3699 CASH: _____

PAYOR: Tetra Tech ADDRESS: 8911 N. Capital of Texas Bldg 2 Ste 230 CITY: Austin STATE: TX

ZIP: 78759 RECEIVED BY: _____

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

___	1. Change of Ownership of Water Right	$ 2.00
___	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Additional Point of Diversion Non 72-12-1 Per Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
1	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

All fees are non-refundable.

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00
___	3. Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) @ $3.00 $_____

E. Certification $_____

F. Other $_____

G. Comments:

Fedex

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

April 23, 2024

Tetra Tech Inc. on behalf of Conoco Phillips
8911 N. Capital of Texas Highway, Bldg 2, Suite 2310
Midland, TX 79701

RE: Well Plugging Plan of Operations for well No C-4827-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

K. Parekh

Kashyap Parekh
Water Resources Manager I

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. John Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: Tetra Tech Inc on behalf of Conoco Phillips
NMOSE Permit Number: C-4827-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4827-POD1	2.0	105	Unknown	32.053208°	103.49946°

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Theoretical volume of sealant required for abandonment of the 2.0 inch diameter (I.D.) casing is approximately 17.12 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 105 feet below ground surface (b.g.s.).

3. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement **PLUS** 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio.

4. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

5. Placement of the sealant within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column.

6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.

7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

9. NMOSE witnessing of the plugging of the non-artesian well will not be required.

10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 23rd day of April 2024

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-4827-POD1

Name of well owner: Tetra Tech Inc. on Behalf of ConocoPhillips

Mailing address: 8911 N. Capital of Texas Highway, Bldg. 2 Suite 2310 County:

City: Austin State: Texas Zip code: 78759

Phone number: 512-565-0190 E-mail: christian.llull@tetratech.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: John Scarborough Drilling Inc.

New Mexico Well Driller License No.: WD1188 Expiration Date: 3/31/2026

IV. WELL INFORMATION: ☐ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32.053208° deg, -103.4994 min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

OSE DII APR 19 2024 AM 11:24

2) Reason(s) for plugging well(s):

Completion of monitoring period

3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? UNK If yes, provide additional detail, including analytical results and/or laboratory report(s): Unknown

5) Static water level: UNK feet below land surface / feet above land surface (circle one)

6) Depth of the well: 105 feet

7) Inside diameter of innermost casing: 2 inches.

8) Casing material: Sch. 40 PVC

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: _____

☒ a well screen or perforated pipe, state the screened interval(s): 15-25

10) What annular interval surrounding the artesian casing of this well is cement-grouted? _____

11) Was the well built with surface casing? NA If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:

Temporary Well

12) Has all pumping equipment and associated piping been removed from the well? _____ If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Tremie Type 1 Cement-Bentonite Slurry from bottom of boring to ground level.

2) Will well head be cut-off below land surface after plugging? NA Temporary

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 17.13 gallons

4) Type of Cement proposed: Type 1 Cement-Bentonite

5) Proposed cement grout mix: 5.2 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

x mixed on site

OSE DII APR 19 2024 AM 11:24

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

N/A

VIII. SIGNATURE:

I, CHRISTIAN LLULL, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 4/18/2024

OSE DII APR 19 2024 AM 11:25

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

X Approved subject to the attached conditions.

_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 23rd day of April, 2024

Mike A. Hamman P.E.

_____., New Mexico State Engineer

By: K. Parekh
Kashyap Parekh

Water Resources Manager I

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			30
Theoretical volume of grout required per interval (gallons)			17.13
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			5.2
Mixed on-site or batch-mixed and delivered?			on-site
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

OSE DII APR 19 2024 AM 11:24

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

OSE DIT APR 19 2024 AM11:24

Chavira, Lisbeth

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Wednesday, April 3, 2024 6:50 PM
To: Llull, Christian
Cc: Chavira, Lisbeth
Subject: Re: [EXTERNAL] Access Request - Gunner 8 Federal #008H FL (NAPP2400930878)

BLM authorizes you to drill and DTW bore on federal surface.

Respectfully,

Shelly J Taylor
Assistant Field Manager
Lands & Minerals - Acting

Bureau of Land Management
Pecos District/Roswell Field Office
2909 W 2nd St
Roswell, NM 88201

Direct 575.627.0250
Mobile 575.200.0614
sjtaylor@blm.gov

From: Llull, Christian <Christian.Llull@tetratech.com>
Sent: Tuesday, March 26, 2024 10:45 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>
Subject: [EXTERNAL] Access Request - Gunner 8 Federal #008H FL (NAPP2400930878)

Shelly,

Tetra Tech is assisting ConocoPhillips with assessment activities associated with a previously reported unplanned release that occurred on December 21, 2023.
The **Gunner 8 Federal #008H FL Release** was the result of equipment failure, approximately 2 bbls of produced water, of which 1 bbl of produced water were recovered.

In order to complete the assessment and the submittal process we are requesting verbal approval to install a DTW on an active COG pad on BLM Land.
KMZ file attached and screengrab below.
This boring location is an on pad – previously disturbed area.

To comply with the New Mexico State Office of Engineer permit requirements, we must include landowner approval when submitting the *Application for Permit to Drill* (WR-07).
Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

Gunner 8 Federal #008H FL
Unit Letter M, Section 8, Township 26 South, Range 34 East
Lea County, New Mexico
Incident Identification (ID) NAPP2400930878
Approximate Release Location: 32.052130°,-103.498346°
Date Release Discovered: 12/21/2023
Volume Released: Approximately 2 barrels (bbls) of produced water were released of which 1 bbl was recovered.
Release in pasture

Christian Llull, P.G. | Program Manager
Mobile **+1 (512) 565-0190** | christian.llull@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

Chavira, Lisbeth

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, April 22, 2024 4:05 PM
To: Chavira, Lisbeth; Enviro, OCD, EMNRD
Cc: Llull, Christian
Subject: Re: [EXTERNAL] RESUBMITTAL: Extension Request - Gunner 8 Federal #008H FL (NAPP2400930878)

Good afternoon Lisbeth,

Sorry for the delay. The incident has been updated with the time extension request approved. Remediation Due date has been updated to June 18, 2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>
Sent: Friday, April 19, 2024 3:57 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetratech.com>
Subject: [EXTERNAL] RESUBMITTAL: Extension Request - Gunner 8 Federal #008H FL (NAPP2400930878)

Nelson,

Tetra Tech submitted via email the below Extension Request with regard to the subject line incident on March 26, 2024.
Based on conversation with both NMOCD and ConocoPhillips, there has been a disconnect between the NOR submittal and the C-141 official submittal.
You called Tetra Tech on March 27, 2024, regarding the fact that an official C-141 had not yet been submitted which is required for approval of the extension.
It was our understanding, if the C-141 was submitted, the extension would subsequently be approved.

Tetra Tech took an immediate action item to get the official C-141 submitted on the Portal on the same day (on March 27, 2024).
However, the extension request, as written, still has not been approved.

If you require any further information, please let me know.

Thank you in advance.

Lisbeth

Lisbeth Chavira | Geoscientist
Direct Mobile **+1 (512) 596-8201** | Lisbeth.chavira@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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From: Chavira, Lisbeth
Sent: Tuesday, March 26, 2024 4:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Abbott, Sam <Sam.Abbott@tetratech.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>
Subject: Extension Request - Gunner 8 Federal #008H FL (NAPP2400930878)

To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 18, 2024) to complete reporting for the Gunner 8 Federal #008H FL (**NAPP2400930878**).

The Notification of Release (NOR) for this release was received by NMOCD on January 9, 2024. ConocoPhillips immediately commenced pursuing a 90-day (March 20, 2024) release characterization and closure per 19.15.29.11(A) NMAC. According to the NMOCD NOR, the date of the release was December 21, 2023. The release was caused by equipment failure. Approximately 2 bbls of produced water were reported released, of which 1 bbl was recovered.

On February 6,' 2024, Tetra Tech personnel were on site to assess the release. A total of eight hand auger borings were installed around and within the release footprint.

Shallow refusal was met due to a hard caprock layer encountered between 1.5 ft to 2.5 ft bgs. Horizontal delineation was achieved, however, due to the hard caprock vertical delineation was not reached.
Tetra Tech returned to the site on February 28, 2024, and installed one trench within the release footprint. Vertical delineation was not reached as analytical results were above current site RRALs of 600 mg/kg for chloride and 100 mg/kg for TPH.

Thus, to adequately determine depth to groundwater and complete the site characterization, ConocoPhillips is planning to complete assessment with a drilling rig and install a depth to groundwater boring.

An *Application for Permit to Drill* will be submitted to the Office of State Engineer (OSE), for the installation of the DTW boring. However, before the application can be submitted to OSE, Tetra Tech is awaiting BLM to grant approval to drill the DTW in the selected location.

In addition, as vertical delineation was not achieved, Tetra Tech will be installing bore holes within the release area during drilling activities.

Therefore, additional time is required to perform the following items:

- Additional assessment sampling.
- Additional coordination with both the BLM and the NMOSE required for the DTW boring.
- Scheduling with an available drilling subcontractor.
- Completion of the site characterization and preparation of the report for OCD review.

Once the DTW boring is completed and the collected sampling data is tabulated and evaluated, a report will be submitted to the OCD.

Thank you in advance.

Lisbeth Chavira | Geoscientist
Direct Mobile **+1 (512) 596-8201** | Lisbeth.chavira@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

APPENDIX C
Site Characterization Data

OCD Land ownership

1/24/2024, 1:45:22 PM

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

U.S. BLM, Esri, HERE, Garmin, iPC, Maxar

Mineral Ownership

A-All minerals are owned by U.S.

Land Ownership

BLM

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

OCD Water Bodies

1/24/2024, 1:43:21 PM

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04626 POD1	CUB	LE	4	2	1	18	26S	34E	640644	3546672	1230			
C 02295	CUB	LE	2	2	4	12	26S	33E	639865	3547624	1935	250	200	50
C 02292 POD1	CUB	LE	4	1	2	06	26S	34E	640992	3549987	2886	200	140	60
C 03442 POD1	C	LE	4	1	2	06	26S	34E	641056	3550028	2910	251		
C 03441 POD1	C	LE	4	1	2	06	26S	34E	640971	3550039	2942	250		

Average Depth to Water: **170 feet**

Minimum Depth: **140 feet**

Maximum Depth: **200 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 641754.33 **Northing (Y):** 3547203.13 **Radius:** 3000

National Flood Hazard Layer FIRMette

FEMA

103°30'13"W 32°3'23"N

103°29'36"W 32°2'53"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/24/2024 at 2:20 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

OCD Karst Areas

1/24/2024, 1:26:28 PM

Karst Occurrence Potential

Low

1:2,257

0 0.01 0.03 0.06 mi

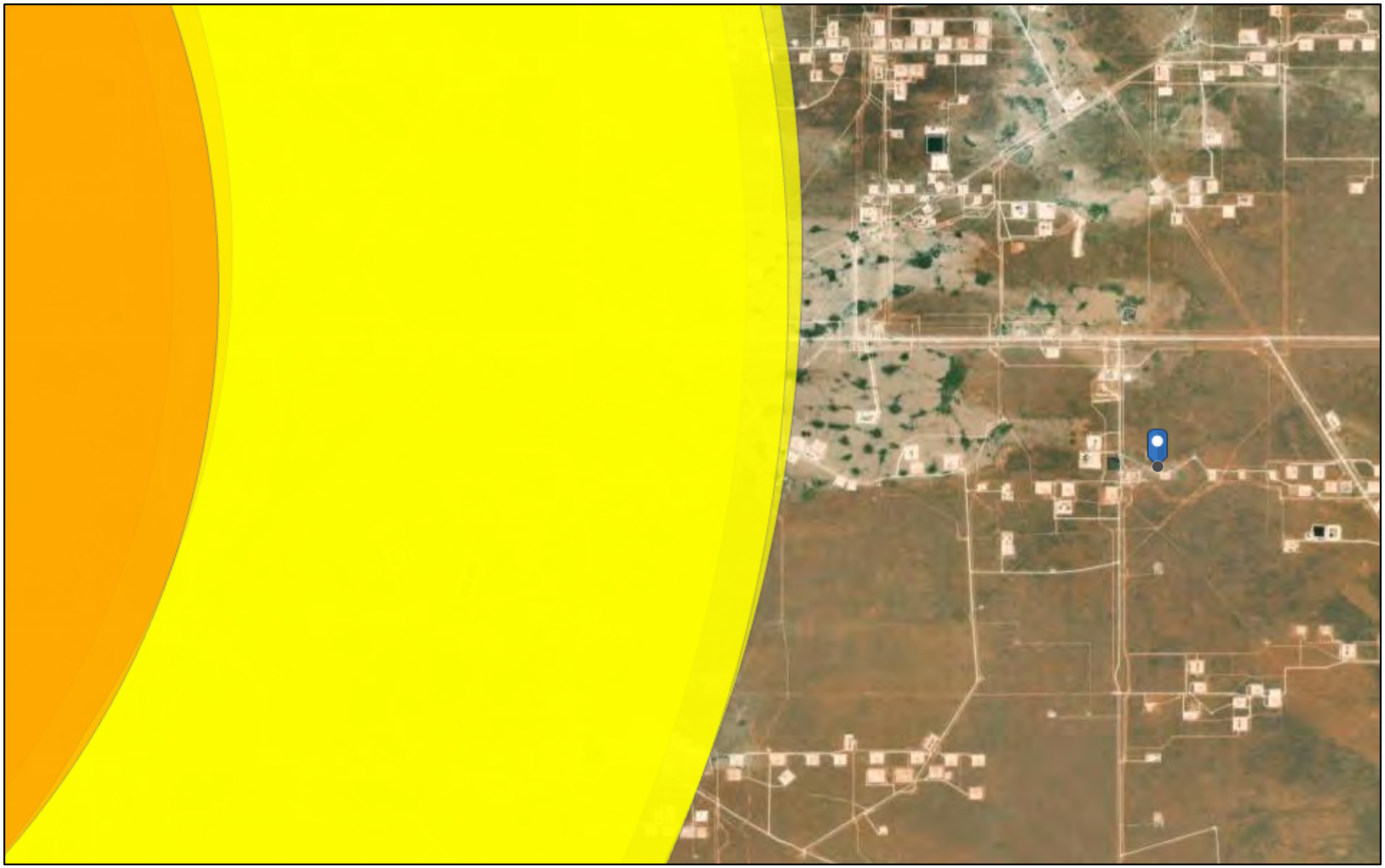
0 0.03 0.05 0.1 km

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

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

OCD Induced Seismic Area



1/30/2024, 10:39:53 AM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, HERE, Garmin, Earthstar Geographics

Seismic Response 3.5 and above	Seismic Response 3.0 to 3.4	Seismic Response 2.5 to 2.9
6 mi.	6 mi.	6 mi.
10 mi.	10 mi.	10 mi.

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

212C-MD-03343 | TETRA TECH | **LOG OF BORING Gunner 8 Federal #008H DTW** | Page 1 of 1

Project Name: Gunner 8 Fed #008H

Borehole Location: GPS Coordinates: 32.053208°, -103.499466° | Surface Elevation: 3360'

Borehole Number: **Gunner 8 Federal #008H DTW** | Borehole Diameter (in.): 8" | Date Started: | Date Finished: 5/16/2024

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY 24 Hours After Completion of Drilling ▽ DRY

Remarks:

DEPTH (ft)	OPERATION TYPES	SAMPLE	CHLORIDE CONCENTRATION (ppm) ExStik	VOC CONCENTRATION (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)
0												**-SP-** SAND: Light brown, loose, dry, fine- to coarse-grained, with caliche fragments	2
												-SM- SILTY SAND: Brown to dark brown, partially weakly cemented, dry, fine-grained, with large caliche fragments	4
												-SP- SAND: Brown, partially weakly cemented, dry, fine- to coarse-grained, with caliche fragments	6
												-SP- SAND: Brown, moderately cemented, dry, fine-grained, with clayey sand and caliche fragments	9
												-SP- SAND: Light brown to pale brown, partially weakly cemented, fine-grained, with clayey sand and caliche nodules	14
												-GM- SAND: Pale brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with caliche fragments	19
												-SP- SAND: Pale brown, dry, coarse-grained, with caliche fragments	24
												-SC- CLAYEY SAND: Brown, moderately cemented, dry, fine-grained, trace caliche nodules	29
												-SC- CLAYEY SAND: Reddish brown, partially weakly, dry, very fine- to fine-grained	39
												-SM- SAND: Light brown, loose, dry, very fine-grained, with some indurated clayey sand fragments	49
												-SM- SAND: Light brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with some indurated clayey sand fragments	59
												-SM- SAND: Light brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with indurated clayey sand fragments	69
												-SM- SAND: Brown to reddish brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with indurated clayey sand fragments	79
												-- SANDY CLAYSTONE: Light brown to reddish brown, indurated, dry, fine-grained	89
												-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	105

WELL DIAGRAM: Capped Pipe; 4" Schedule 40 PVC Casing; 4" Schedule 40 PVC Slotted Screen (0.010")

Bottom of borehole at 105.0 feet.

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California, Test Pit

Operation Types: Hollow Stem Auger, Continuous Flight Auger, Mud Rotary, Auger, Air Rotary, Direct Push, Drive Casing

Notes:

Surface elevation is an approximate value obtained from Google Earth data.

Logger: Colton Bickerstaff | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

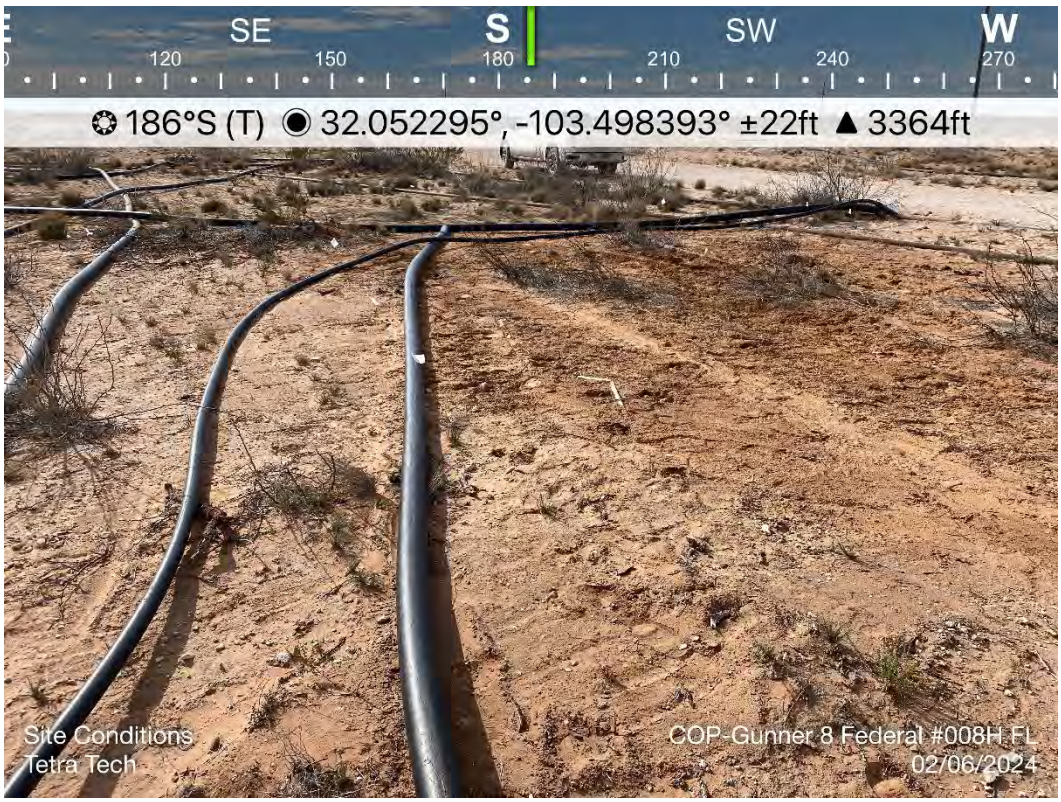
GUNNER 8 FED #008H.GPJ ' 6-3-24 ' ' TT_AUSTIN_GEOTECH_WELL3 ' '2015 TT TEMPLATE DECEMBER WELL.GDT '

APPENDIX D
Photographic Documentation

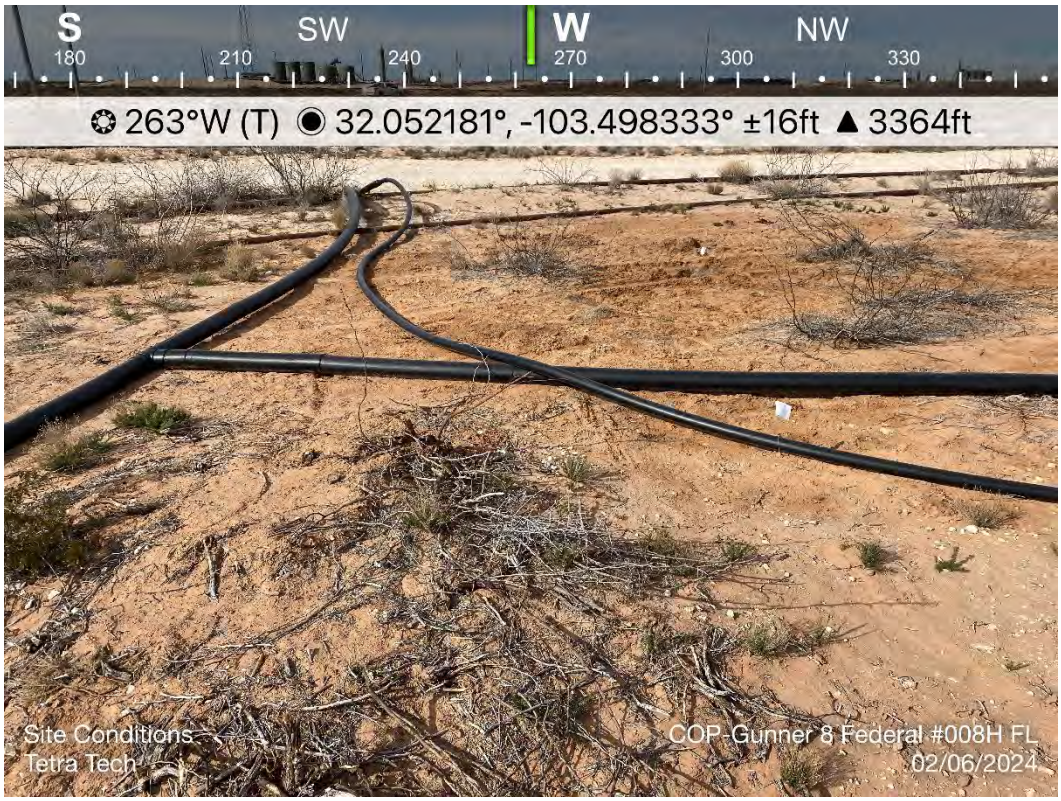
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	Site signage. COG Operating LLC, Gunner 8 Federal #8H and location information.	1
	SITE NAME	Gunner 8 Federal #008H Flowline Release	1/11/2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View north northwest. Release area, surface polylines and steel lines.	2
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View east. Release area and surface polylines.	3
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View south. Release area and surface polylines.	4
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View west towards lease road. Release area and surface polylines	5
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View south southeast. Borehole location BH-1. Release area and surface polylines.	6
	SITE NAME	Gunner 8 Federal #008H Flowline Release	5/16/2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View southeast. Borehole location BH-2. Release area and surface polylines.	7
	SITE NAME	Gunner 8 Federal #008H Flowline Release	5/16/2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View east northeast. Depth to water determination boring.	8
	SITE NAME	Gunner 8 Federal #008H Flowline Release	5/16/2024

APPENDIX E
Laboratory Analytical Data

CARDINAL Laboratories

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

February 12, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: GUNNER 8 FEDERAL #008H FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 02/07/24 11:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -1 (0-1') (H240566-01)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**13800**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -1 (2-2.5') (H240566-02)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16000**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *98.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -2 (0-1') (H240566-03)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**15600**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *92.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -2 (2-2.25') (H240566-04)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10000**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *91.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -3 (0-1') (H240566-05)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**14800**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *93.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -4 (0-1') (H240566-06)

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	02/07/2024	ND	1.86	92.8	2.00	6.19	
Toluene*	<0.050	0.050	02/07/2024	ND	1.93	96.7	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	1.94	97.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.81	96.9	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4240**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *89.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -4 (1-1.5') (H240566-07)

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	02/07/2024	ND	2.01	100	2.00	4.48	
Toluene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	3.77	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.84	97.4	6.00	3.74	
Total BTEX	<0.300	0.300	02/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4240**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *87.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -5 (0-1') (H240566-08)

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	02/07/2024	ND	2.01	100	2.00	4.48	
Toluene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	3.77	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.84	97.4	6.00	3.74	
Total BTEX	<0.300	0.300	02/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *73.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *66.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -6 (0-1') (H240566-09)

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	02/07/2024	ND	2.01	100	2.00	4.48	
Toluene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	3.77	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.84	97.4	6.00	3.74	
Total BTEX	<0.300	0.300	02/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *80.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.5 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -7 (0-1') (H240566-10)

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	02/07/2024	ND	2.01	100	2.00	4.48	
Toluene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	3.77	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.84	97.4	6.00	3.74	
Total BTEX	<0.300	0.300	02/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *75.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *68.1 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/06/2024
Reported:	02/12/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: AH -8 (0-1') (H240566-11)

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	02/07/2024	ND	2.01	100	2.00	4.48	
Toluene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/07/2024	ND	2.01	100	2.00	3.77	
Total Xylenes*	<0.150	0.150	02/07/2024	ND	5.84	97.4	6.00	3.74	
Total BTEX	<0.300	0.300	02/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	02/07/2024	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	02/07/2024	ND	193	96.3	200	0.155	
DRO >C10-C28*	<10.0	10.0	02/07/2024	ND	204	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	02/07/2024	ND					

Surrogate: 1-Chlorooctane *89.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	**BILL TO**
Project Manager: Christian Llull	P.O. #:
Address: 8911 Capital of Texas Hwy, Suite 2310	Company: Tetra Tech
City: Austin State: TX Zip:	Attn: Christian Llull
Phone #: (512)565-0190 Fax #:	Address: EMAIL
Project #: 212C-MD-03343 Project Owner: ConocoPhillips	City:
Project Name: Gunner 8 Federal #008H Flowline	State: Zip:
Project Location: Lea County, New Mexico	Phone #:
Sampler Name: Colton Bickerstaff	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
H240566																	
1	AH-1 (0-1')	G	1			X					X		2/6/2024		X	X	X
2	AH-1 (2'-2.5')	G	1			X					X		2/6/2024		X	X	X
3	AH-2 (0-1')	G	1			X					X		2/6/2024		X	X	X
4	AH-2 (2-2.25')	G	1			X					X		2/6/2024		X	X	X
5	AH-3 (0-1')	G	1			X					X		2/6/2024		X	X	X
6	AH-4 (0-1')	G	1			X					X		2/6/2024		X	X	X
7	AH-4 (1'-1.5')	G	1			X					X		2/6/2024		X	X	X
8	AH-5 (0-1')	G	1			X					X		2/6/2024		X	X	X
9	AH-6 (0-1')	G	1			X					X		2/6/2024		X	X	X
10	AH-7 (0-1')	G	1			X					X		2/6/2024		X	X	X

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickerstaff	Date: 2/7/24 Time: 1112	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 34 Corrected Temp. °C	Sample Condition Cool: Yes Intact: Yes / No	CHECKED BY: (Initials) T.O.	Turnaround Time: Standard ✱ Bacteria (only, Sample Condition) Rush: N/A ☐ Cool: Intact: Observed Temp. °C Thermometer ID ~~#113~~ #140 Correction Factor ~~-0.5°C~~ T.O. 2/7/24 Yes/Yes No/No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		BILL TO	
Project Manager: Christian Llull		P.O. #:	
Address: 8911 Capital of Texas Hwy, Suite 2310		Company: Tetra Tech	
City: Austin	State: TX Zip:	Attn: Christian Llull	
Phone #: (512)565-0190	Fax #:	Address: EMAIL	
Project #: 212C-MD-03343	Project Owner: ConocoPhillips	City:	
Project Name: Gunner 8 Federal #008H Flowline		State: Zip:	
Project Location: Lea County, New Mexico		Phone #:	
Sampler Name: Colton Bickerstaff		Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
H240560																	
11	AH-8 (0-1')	G	1			X					X		2/6/2024		X	X	X

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickerstaff	Date: 2/7/24 Time: 1112	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.4 Corrected Temp. °C	Sample Condition Cool Intact ☐ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)

Turnaround Time: Standard ✱ Bacteria (only) Sample Condition
Rush: N/A ☐ Cool Intact Observed Temp. °C
Thermometer ID ~~#113~~ #140 ☐ Yes ☐ Yes
Correction Factor ~~-0.5 °C~~ 0° 2/7/24 ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

March 04, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: GUNNER 8 FEDERAL #008H FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 02/29/24 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (0-1') (H241000-01)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7860**	16.0	03/01/2024	ND	416	104	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	02/29/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	<10.0	10.0	02/29/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.6 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (2'-3') (H241000-02)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10200**	16.0	03/01/2024	ND	416	104	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	02/29/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	<10.0	10.0	02/29/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (3'-4') (H241000-03)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12000**	16.0	03/01/2024	ND	416	104	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	02/29/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	<10.0	10.0	02/29/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane *91.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (5'-6') (H241000-04)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11000**	16.0	03/01/2024	ND	416	104	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	02/29/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	<10.0	10.0	02/29/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane *94.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (7'-8') (H241000-05)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1260**	16.0	03/01/2024	ND	416	104	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	02/29/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	<10.0	10.0	02/29/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/04/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY,NM		

Sample ID: T - 1 (9'-10') (H241000-06)

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	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEX	<0.300	0.300	03/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2000**	16.0	03/01/2024	ND	416	104	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	03/01/2024	ND	187	93.3	200	0.378	
DRO >C10-C28*	**270**	10.0	03/01/2024	ND	186	92.9	200	5.10	
EXT DRO >C28-C36	**195**	10.0	03/01/2024	ND					

Surrogate: 1-Chlorooctane *88.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	**BILL TO**
Project Manager: Christian Llull	P.O. #:
Address: 8911 Capital o Texas Hwy, Suite 2310	Company: Tetra Tech
City: Austin State: TX Zip:	Attn: Christian Llul
Phone #: (512)565-0190 Fax #:	Address: EMAIL
Project #: 212C-MD-03343 Project Owner: ConocoPhillips	City:
Project Name: Gunner 8 Federal #008H Flowline Release	State: Zip:
Project Location: Lea County, New Mexico	Phone #:
Sampler Name: Colton Bickerstaff	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
H241000																	
1	T-1 (0-1')	G	1			X					X		2/28/2024		X	X	X
2	T-1 (2'-3')	G	1			X					X		2/28/2024		X	X	X
3 4	T-1 (3'-4')	G	1			X					X		2/28/2024		X	X	X
5	T-1 (5'-6')	G	1			X					X		2/28/2024		X	X	X
6	T-1 (7'-8')	G	1			X					X		2/28/2024		X	X	X
	T-1 (9'-10')	G	1			X					X		2/28/2024		X	X	X

ANALYSIS REQUEST

Relinquished By: Colton Bickerstaff	Date: 2/29/24 Time: 1050	Received By: SRodriguez	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
			All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 1.9 Corrected Temp. °C	Sample Condition Cool Intact ☑ Yes ☐ Yes ☐ No ☐ No	CHECKED BY: (Initials) SR

Turnaround Time: Standard ☒ Bacter. (only) Sample Condition
Rush: N/A ☐ Cool Intact Observed Temp. °C
Thermometer ID #113 Correction Factor -0.5°C #140 ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

May 22, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: GUNNER 8 FEDERAL #008H FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 14:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (3'-4') (H242717-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11100**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *96.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (5'-6') (H242717-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**15200**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (7'-8') (H242717-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6660**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *92.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *82.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (9'-10') (H242717-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5860**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *97.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (14'-15') (H242717-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	05/20/2024	ND	416	104	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	05/18/2024	ND	182	91.0	200	4.89	
DRO >C10-C28*	<10.0	10.0	05/18/2024	ND	167	83.4	200	3.60	
EXT DRO >C28-C36	<10.0	10.0	05/18/2024	ND					

Surrogate: 1-Chlorooctane *87.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (19'-20') (H242717-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/17/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *83.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 1 (24'-25') (H242717-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *95.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 2 (3'-4') (H242717-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10000**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *99.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 2 (5'-6') (H242717-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**11600**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 2 (7'-8') (H242717-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5200**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 2 (9'-10') (H242717-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2000**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *95.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/16/2024	Sampling Date:	05/16/2024
Reported:	05/22/2024	Sampling Type:	Soil
Project Name:	GUNNER 8 FEDERAL #008H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03343	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY,NM		

Sample ID: BH - 2 (14'-15') (H242717-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2024	ND	2.16	108	2.00	2.44	
Toluene*	<0.050	0.050	05/18/2024	ND	2.08	104	2.00	2.80	
Ethylbenzene*	<0.050	0.050	05/18/2024	ND	2.09	104	2.00	2.54	
Total Xylenes*	<0.150	0.150	05/18/2024	ND	5.95	99.1	6.00	2.64	
Total BTEX	<0.300	0.300	05/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	05/20/2024	ND	416	104	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	05/17/2024	ND	170	84.9	200	2.87	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	182	91.1	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane *87.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.8 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	**BILL TO**
Project Manager: Christian Llull	P.O. #:
Address: 8911 Capital o Texas Hwy, Suite 2310	Company: Tetra Tech
City: Austin State: TX Zip: 78750	Attn: Christian Llull
Phone #: (512)565-0190 Fax #:	Address: EMAIL
Project #: 212C-MD-03343 Project Owner: ConocoPhillips	City:
Project Name: Gunner 8 Federal #008H Flowline Release	State: Zip:
Project Location: Lea County, New Mexico	Phone #:
Sampler Name: Colton Bickerstaff	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
H643717																	
1	BH-1 (3'-4')	G	1			X					X		5/16/2024		X	X	X
2	BH-1 (5'-6')	G	1			X					X		5/16/2024		X	X	X
3	BH-1 (7'-8')	G	1			X					X		5/16/2024		X	X	X
4	BH-1 (9'-10')	G	1			X					X		5/16/2024		X	X	X
5	BH-1 (14'-15')	G	1			X					X		5/16/2024		X	X	X
6	BH-1 (19'-20')	G	1			X					X		5/16/2024		X	X	X
7	BH-1 (24'-25')	G	1			X					X		5/16/2024		X	X	X
8	BH-2 (3'-4')	G	1			X					X		5/16/2024		X	X	X
9	BH-2 (5'-6')	G	1			X					X		5/16/2024		X	X	X
10	BH-2 (7'-8')	G	1			X					X		5/16/2024		X	X	X

Relinquished By: Colton Bickerstaff	Date: 5/16/24 Time: 1448	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.1 Corrected Temp. °C	Sample Condition Cool Intact ☐ Yes ☐ Yes ☐ No ☐ No	CHECKED BY: (Initials)

Turnaround Time: Standard ✖ Bacteria (only) Sample Condition
Rush: ND ☐ Cool Intact Observed Temp. °C
Thermometer ID #140
Correction Factor
☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech	**BILL TO**
Project Manager: Christian Llull	P.O. #:
Address: 8911 Capital o Texas Hwy, Suite 2310	Company: Tetra Tech
City: Austin State: TX Zip:	Attn: Christian Llull
Phone #: (512)565-0190 Fax #:	Address: EMAIL
Project #: 212C-MD-03343 Project Owner: ConocoPhillips	City:
Project Name: Gunner 8 Federal #008H Flowline Release	State: Zip:
Project Location: Lea County, New Mexico	Phone #:
Sampler Name: Colton Bickerstaff	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	HOLD
H242717																		
11	BH-2 (9'-10')	G	1			X					X		5/16/2024		X	X	X	
12	BH-2 (14'-15')	G	1			X					X		5/16/2024		X	X	X	X
13	BH-2 (19'-20')	G	1			X					X		5/16/2024		X	X	X	X
14	BH-2 (24'-25')	G	1			X					X		5/16/2024		X	X	X	

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Colton Bickerstaff	Date: 5/16/24 Time: 1448	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 31 Corrected Temp. °C	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)

Turnaround Time: Standard ✱ Bacteria (only) Sample Condition
Rush: ☐ Cool Intact Observed Temp. °C
Thermometer ID #140
Correction Factor
☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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QUESTIONS

Action 359846

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 359846
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2400930878**
Incident Name	**NAPP2400930878 GUNNER 8 FEDERAL 008H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Facility	**[fAPP2203943927] Gunner 8 Fed 8H - RT Btty**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GUNNER 8 FEDERAL 008H
Date Release Discovered	12/21/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 2 BBL | Recovered: 1 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/09/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	465
GRO+DRO (EPA SW-846 Method 8015M)	465
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	10/01/2024
On what date will (or did) the final sampling or liner inspection occur	10/03/2024
On what date will (or was) the remediation complete(d)	10/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	537
What is the estimated volume (in cubic yards) that will be reclaimed	80
What is the estimated surface area (in square feet) that will be remediated	537
What is the estimated volume (in cubic yards) that will be remediated	80
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	Gunner 8 Fed 8H - RT Btty [fAPP2203943927]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 359846

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 359846
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance request to collect samples every 400' is approved. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	7/2/2024