



December 18, 2024

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

**Re: Closure Report
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 was provided a copy of the approved Work Plan for concurrence. Crisha Morgan with the BLM requested a cultural survey be performed as the release is outside of a previously surveyed space. ConocoPhillips complied with the BLM's request and provided the BLM with a copy of the Cultural Survey via email on September 27, 2024. On September 30, 2024, the archeology section of the BLM stated, "as far as archeology is concerned, the remediation is clear to proceed". Crisha Morgan verbally cleared the remediation on October 8, 2024, and on October 29, 2024, provided written clearance. All correspondence is included in Appendix B.

CULTURAL PROPERTIES PROTECTION

Tetra Tech, on behalf of ConocoPhillips, contracted SWCA Environmental Consultants (SWCA) to conduct a pedestrian survey for the Gunner 8 Federal #008H Flowline covering 1.25-acres on the BLM-managed land in Lea County, New Mexico.

Tetra Tech

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Closure Report
December 18, 2024

ConocoPhillips

On September 4, 2024, the archeological survey was completed by SWCA. No archaeological sites, historic properties, or isolated occurrences were observed during the investigation. No additional investigation or treatment was recommended regarding the current undertaking. A copy of the NMCRIS Activity No. 156563 is included in Appendix B.

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.

As the available water level information is from a well farther than 1/2-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

Closure Report
December 18, 2024

ConocoPhillips

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. The sampling locations are presented in Figure 3.

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.

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.

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.

A Remediation Work Plan dated June 12, 2024, was prepared based on the results of the 2024 release assessment activities and submitted to the NMOCD for approval. The Work Plan was conditionally approved by NMOCD on July 2, 2024. A copy of the regulatory correspondence is included as Appendix B.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

A 90-day extension request was submitted to the NMOCD on October 1, 2024. The NMOCD approved the extension on October 2, 2024, for a new due date of December 29, 2024. A copy of the extension request and approval is included in Appendix B.

From November 4 to November 7, 2024, Tetra Tech personnel were onsite to remediate the release as proposed in the approved Work Plan, including excavation, disposal, and backfill. The extent of impacted soils was confirmed with field soil screening data and excavated to depths ranging from 4 to 5 feet below surrounding grade. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD was notified via the OCD portal on October 30, 2024, and November 6, 2024. A variance request was sent via email to NMOCD as the second C-141N was not within 48-hours. Scott Rogers with the NMOCD approved the variance request via email. Documentation of associated regulatory correspondence is included in Appendix B. On November 4 and November 6, 2024, Tetra Tech personnel were onsite for confirmation sampling. Confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the approved RRALs to demonstrate compliance.

Closure Report
December 18, 2024

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All of the excavated material was transported offsite for proper disposal. Approximately one hundred and six (106) cubic yards of material were transported to the R360 Antelope Draw in Jal, New Mexico. Copies of the waste manifests are included in Appendix E.

Per the NMOCD approval of the Work Plan, confirmation samples were collected such that each sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. A total of five (5) confirmation floor samples and four (4) confirmation sidewall samples were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, confirmation floor sample locations were labeled with "FS"-#.

Initial confirmation soil sampling analytical results associated with FS-2 and FS-3 locations exceeded the Site RRALS for chloride of 20,000 mg/kg at 4 feet bgs. The excavation floors were deepened to 5 feet bgs, and iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 2) post-additional excavation.

Final analytical results for the confirmation soil samples (floor and sidewalls) were below the respective RRALS for chloride, BTEX, and TPH. The results of the November 2024 confirmation sampling events are summarized in Table 2. Laboratory analytical data is included in Appendix F. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

RECLAMATION ACTIVITIES

Based on 19.15.29.13 NMAC, areas disturbed by the remediation have been reclaimed. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500CI-B. The analytical results were directly compared to the reclamation requirements and established Site RRALS to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the Site RRALS for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 4. The results of the November 2024 confirmation sampling events are summarized in Table 2.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500CI-B. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas in the pasture were seeded following backfilling, to aid in revegetation. Based on the soils of the site, the BLM Seed Mix #2 was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. One (1) representative 5-point composite sample was collected from the backfill material used for the reclamation of the project site. Soil backfill composite sampling results are summarized in Table 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the Site does not show revegetation after one growing season, the area will be reseeded as appropriate. Reclamation activities have been implemented in consultation with the BLM.

Closure Report
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CONCLUSION

ConocoPhillips respectfully requests closure of the release incident based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 596-8201.

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



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

cc:
Mr. Jacob Laird – PBU, ConocoPhillips
Ms. Crisha Morgan – BLM

LIST OF ATTACHMENTS

Figures:

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

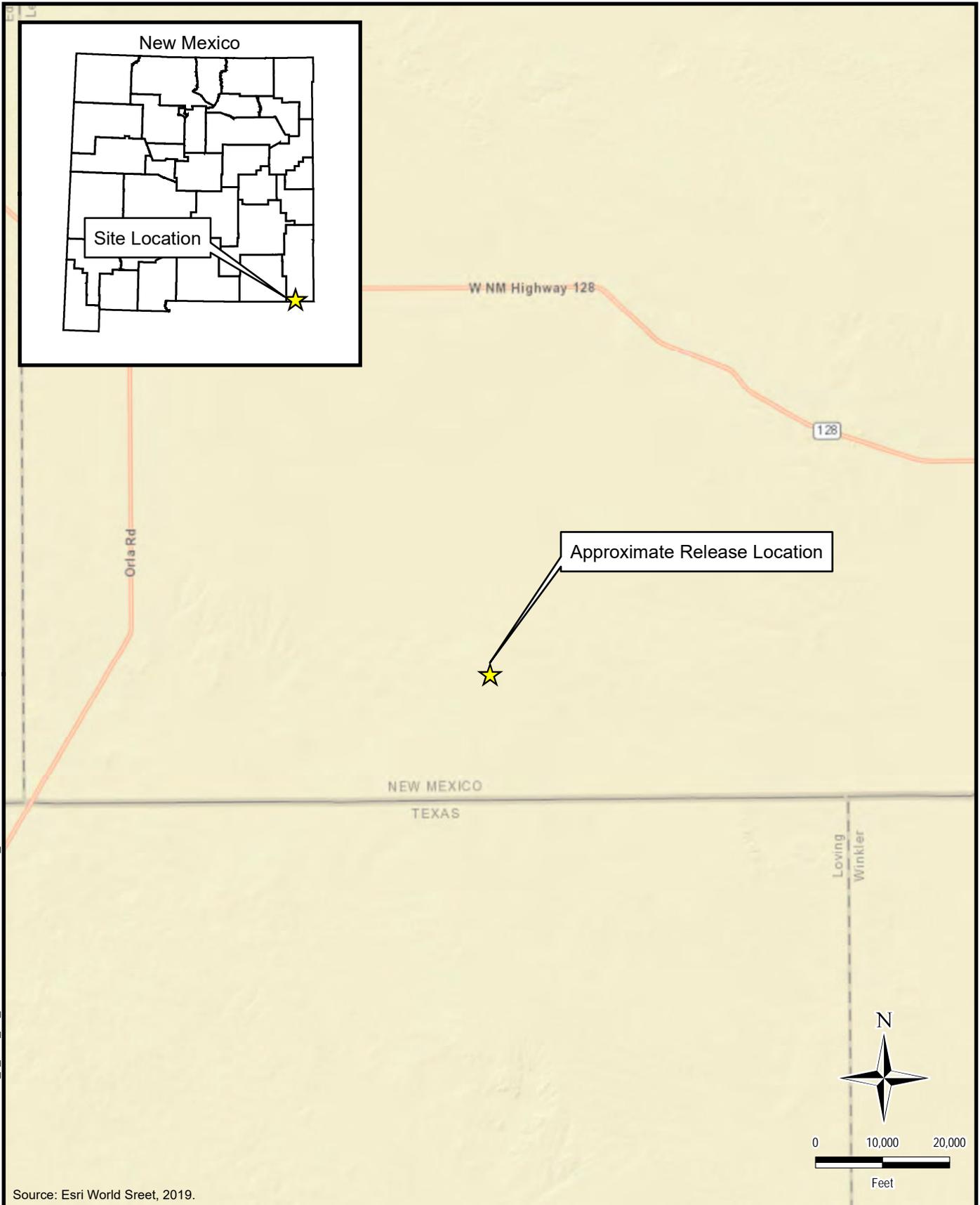
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Soil Remediation
- Table 3 – Summary of Analytical Results – Intrepid Pit – Soil Backfill

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Regulatory Correspondence/Cultural Survey
- Appendix C – Site Characterization Data
- Appendix D – Photographic Documentation
- Appendix E – Waste Manifests
- Appendix F – Laboratory Analytical Data

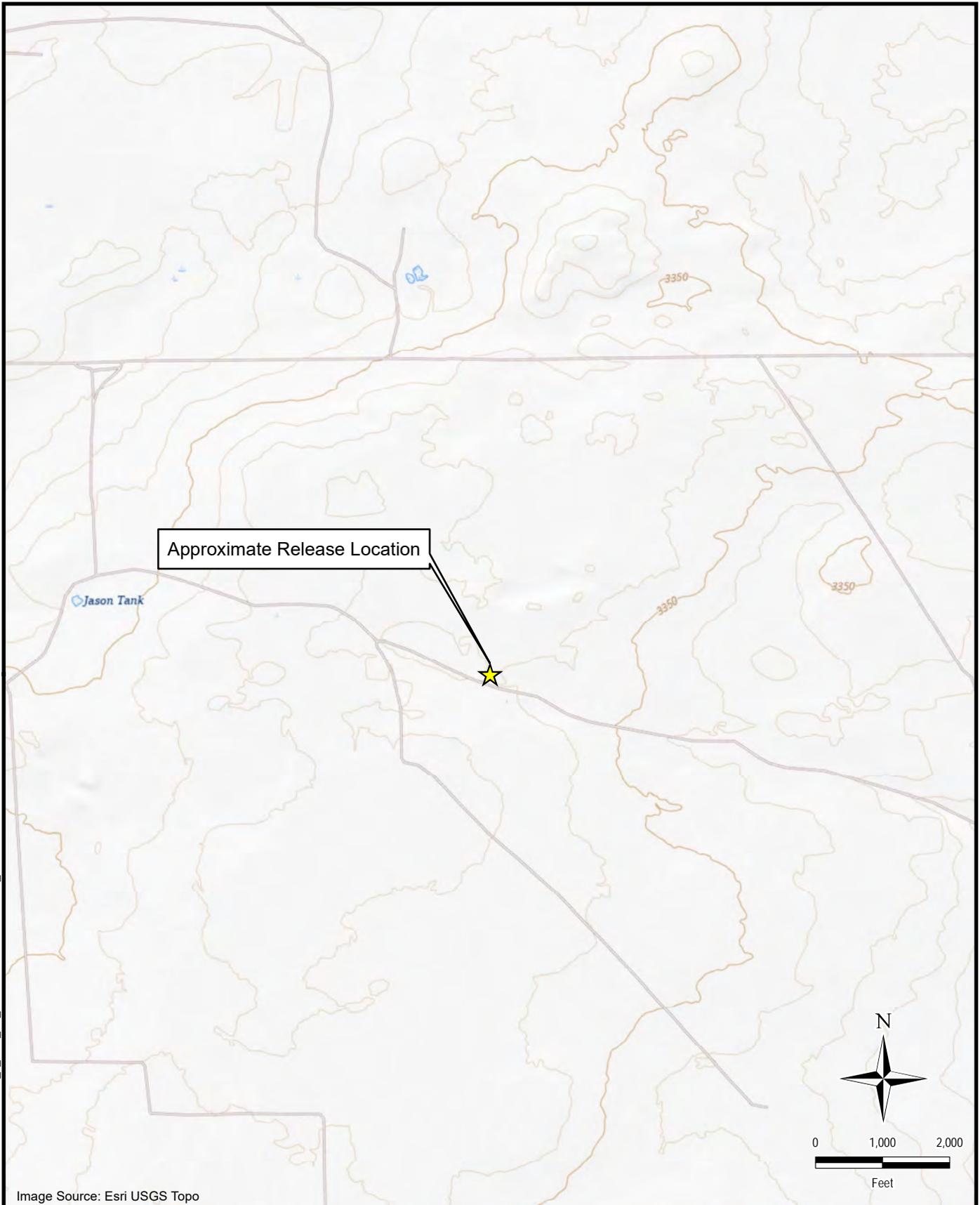
FIGURES



Source: Esri World Sreet, 2019.

DOCUMENT PATH: Y:\CONOCOPHILLIPS\GUNNER 8 - FED_8H_FL\MXD\FIGURE 1 OVERVIEW_GUNNER 8- 8H.MXD

 <p>www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NAPP2400930878 LEA COUNTY, NEW MEXICO (32.052130°, -103.498346°)</p>	<p>PROJECT NO.: 212C-MD-03343</p>
	<p>GUNNER 8 FEDERAL #008H FL OVERVIEW MAP</p>	<p>DATE: JUNE 07, 2024</p> <p>DESIGNED BY: LMV</p>
		<p>Figure No. 1</p>



Approximate Release Location

Jason Tank

3350

3350

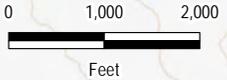


Image Source: Esri USGS Topo

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**

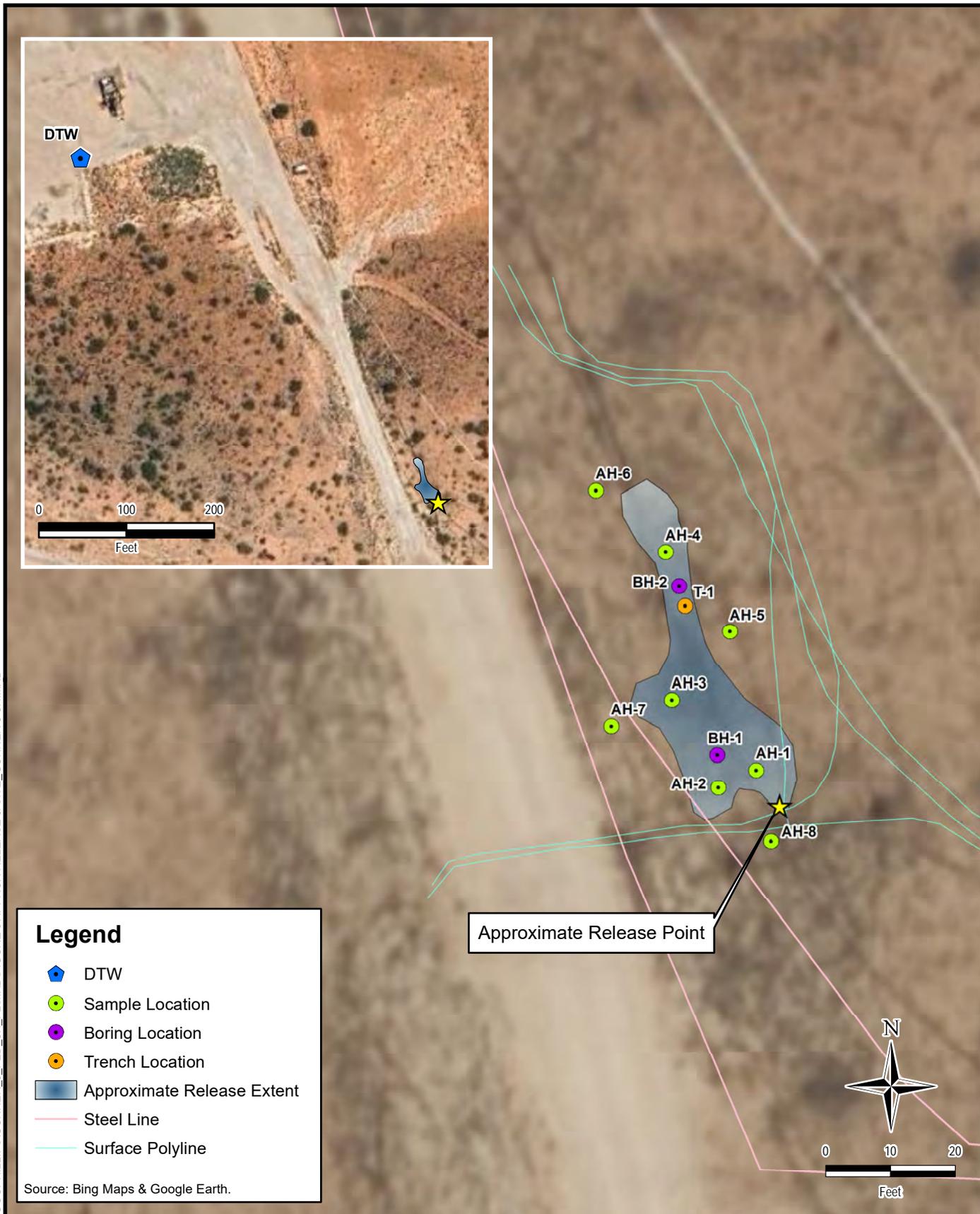
PROJECT NO.: 212C-MD-03343

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

Legend

- DTW
- Sample Location
- Boring Location
- Trench Location
- Approximate Release Extent
- Steel Line
- Surface Polyline

Source: Bing Maps & Google Earth.

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

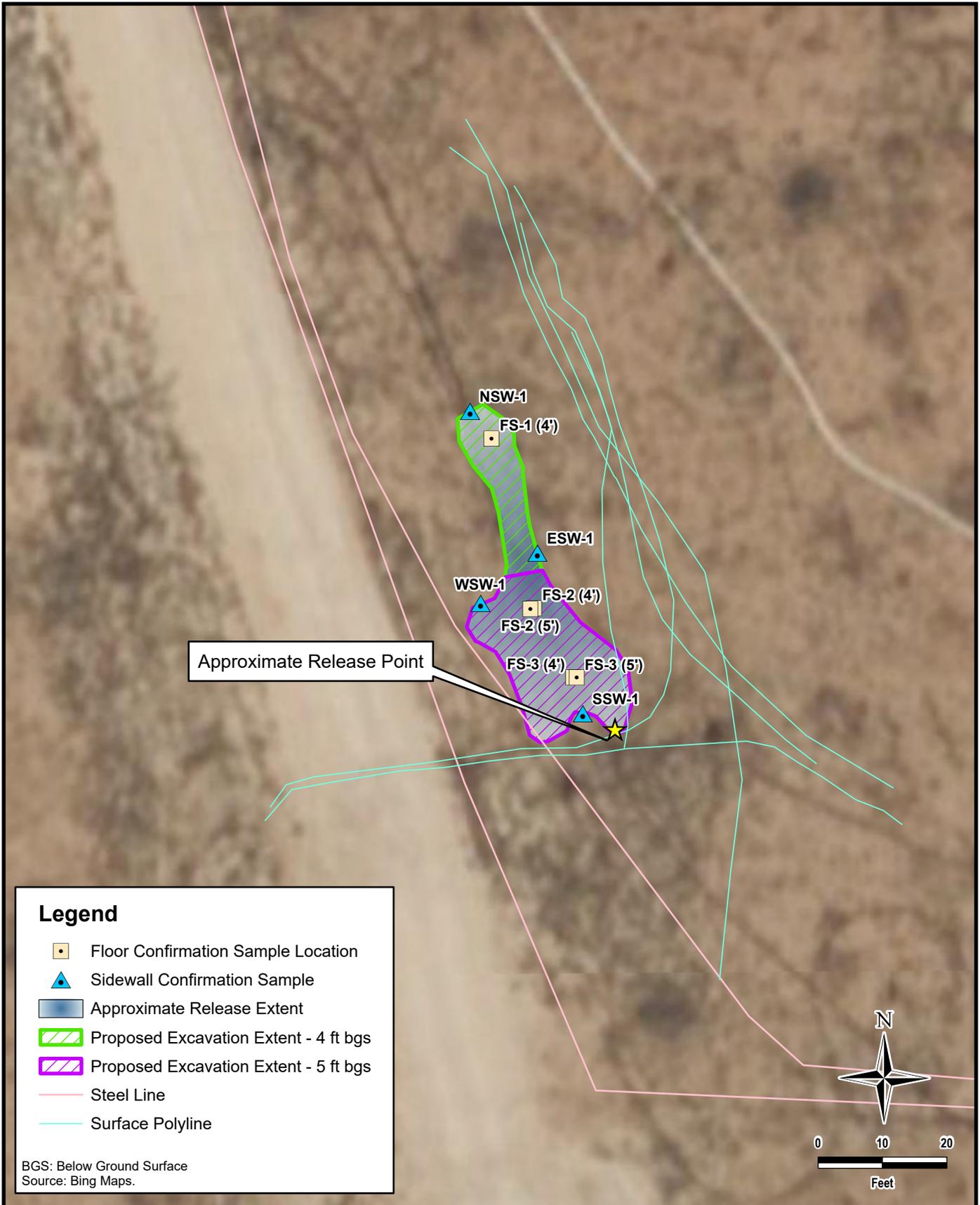
GUNNER 8 FEDERAL #008H FL
APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.: 212C-MD-03343

DATE: JUNE 07, 2024

DESIGNED BY: LMV

Figure No.
3



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Legend

- Floor Confirmation Sample Location
- Sidewall Confirmation Sample
- Approximate Release Extent
- Proposed Excavation Extent - 4 ft bgs
- Proposed Excavation Extent - 5 ft bgs
- Steel Line
- Surface Polyline

BGS: Below Ground Surface
Source: Bing Maps.



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CONOCOPHILLIPS

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

**GUNNER 8 FEDERAL #008H FL
REMEDIATION EXTENT**

PROJECT NO.: 212C-MD-03343

DATE: DECEMBER 13, 2024

DESIGNED BY: LMV

Figure No.

4

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						
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
		ft. bgs	ppm	Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:		Closure Criteria for Soils >4' bgs (GW > 100 ft):																	
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		<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		<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 SM4500CI-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.

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 SOIL REMEDIATION - NAPP2400930878
 CONOCOPHILLIPS
 GUNNER 8 FEDERAL #008H FLOWLINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
					ft. bgs		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-1	11/4/2024	4	15,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2*	11/4/2024	4	22,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2 (5')	11/6/2024	5	3,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-3*	11/4/2024	4	24,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-3 (5')	11/6/2024	5	10,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
NSW-1	11/4/2024	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	11/4/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	11/4/2024	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	11/4/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

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

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

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

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

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

TABLE 3
 SUMMARY OF ANALYTICAL RESULTS
 INTREPID PIT - SOIL BACKFILL
 CONOCOPHILLIPS
 32.133182,-103.278928
 LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³						
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
BACKFILL - COMPOSITE	3/26/2024	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500C1-B
- 2 Method 8021B
- 3 Method 8015M

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	NAPP2400930878
District RP	
Facility ID	fAPP2203943927
Application ID	

Release Notification

Responsible Party

Responsible Party	COG, Operating LLC	OGRID	229137
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2400930878
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0521 Longitude -103.4984
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Gunner 8 Federal 008H	Site Type	Flowline
Date Release Discovered	December 21, 2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
M	08	26S	34E	Lea

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 2.1934	Volume Recovered (bbls) 0.5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Release was caused by a faulty clamp on a poly water transfer line. The release was off pad. A vacuum truck was dispatched to recover freestanding fluids. Conoco will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2400930878
District RP	
Facility ID	fAPP2203943927
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>Brittany N. Esparza</u> Title: <u>Environmental Technician</u> Signature: <u></u> Date: <u>1/9/2024</u> email: <u>Brittany.Esparza@ConocoPhillips.com</u> Telephone: <u>(432) 221-0398</u>
<u>OCD Only</u> Received by: _____ Date: _____

Remediation Recommendation
Page 17 of 108

Spill Calculation - Subsurface Spill - Rectangle										
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		
Rectangle F				✓		0.00		0.00		
Rectangle G				✓		0.00		0.00		
Rectangle H				✓		0.00		0.00		
Rectangle I				✓		0.00		0.00		
Total Subsurface Volume Released:							2.1934	3.80	750	
BU										

Received by OCD: 7/1/2024 8:20:02 AM
Released to Imaging: 7/2/2024 1:54:17 PM

District I
 1625 N. French Dr., Hobbs, NM 88240
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 1000 Rio Brazos Rd., Aztec, NM 87410
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 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	
<i>Please answer all the questions in this group.</i>	
Site Name	Gunner 8 Federal 008H
Date Release Discovered	12/21/2023
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 2

Action 301427

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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 3

Action 301427

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

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

Incident ID	NAPP2400930878
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?	105 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2400930878
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: Jacob Laird Title: Environmental Engineer, DBE

Signature: *Jacob Laird* Date: 6/12/2024

email: Jacob.Laird@conocophillips.com Telephone: 575.703.5482

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2400930878
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: Jacob Laird Title: Environmental Engineer, DBE
 Signature: *Jacob Laird* Date: 6/12/2024
 email: Jacob.Laird@conocophillips.com Telephone: 575.703.5482

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

District I
 1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

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

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
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.

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

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QUESTIONS (continued)

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

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
--	---

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

District II
811 S. First St., Artesia, NM 88210
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District III
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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, Page 3

Action 359846

QUESTIONS (continued)

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

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
<i>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.</i>	
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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Action 359846

QUESTIONS (continued)

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

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, Page 5

Action 359846

QUESTIONS (continued)

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

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

District II
 811 S. First St., Artesia, NM 88210
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Santa Fe, NM 87505

QUESTIONS, Page 6

Action 359846

QUESTIONS (continued)

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: *Jacob Laird* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Regulatory Correspondence

Chavira, Lisbeth

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Tuesday, October 29, 2024 9:18 AM
To: Chavira, Lisbeth
Cc: Llull, Christian
Subject: Re: [EXTERNAL] (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023
Attachments: 20241022 GUNNER 8 FEDERAL 8H.pdf

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Bureau of Land Management



Please consider this the BLM's approval to move forward.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer|COR| Spills Coordinator| Orphaned & Idled Well POC Lead
 Bureau of Land Management | Carlsbad Field Office
 620 E. Greene Street Carlsbad, NM 88220
 Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



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From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Tuesday, October 8, 2024 3:20 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: FW: [EXTERNAL] (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

Hi Crisha,

Please see attached the BLM archaeology approval email for the Gunner 8 Federal 008H. As requested, a Sundry Notice was submitted for this release, the Sundry ID: 2815980.

If you have any questions or need additional information, please let me know.

Thank you in advance.

Lisbeth

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

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From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Wednesday, August 21, 2024 11:53 AM
To: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>
Subject: FW: [EXTERNAL] (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

Christian

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Wednesday, August 21, 2024 11:49 AM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: Re: [EXTERNAL] (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

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Bureau of Land Management



Christian,

I have reviewed this workplan and my Environmental Impact Review is as follows:

The only requirement for this release is an Arch survey as this release falls outside of the previously surveyed space. All other stipulations are cleared. This site will require BLM Seed mixture # 2 for sandy sites. I have attached a copy of the mixture for your records.

For on-lease actions, the operator will need to submit requests as a notice through the BLM system known as AFMSS before I can get you approval to off pad delineation/remediation and environmental impact review, or for the letter required by the State Engineer's Office for bore hole permitting. AFMSS will create an auto populated sundry ID number once the form has been submitted. Please shoot me that ID number so that I can easily find your submission within our system. These sundry forms need to be submitted as a **Notice of Intent (NOI)** under the **"OTHER"** tab. I have also included some AFMSS information below if you or the operator needs assistance creating a new AFMSS account for all BLM form submissions.

AFMSS Operator How To

If an operator does not already have an AFMSS account created, someone in the company can get an AFMSS account by submitting a helpdesk ticket here. <https://phd.blm.gov/>

Once they have access, they can find the well in the finder screen, select it and submit a sundry notice through AFMSS. This link will give them some video tutorials for the online submission. <http://www.ntc.blm.gov/krc/viewresource.php?courseID=869>

Please let me know if you run into any issues, or have any more questions.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned & Idled Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



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From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Wednesday, August 21, 2024 10:20 AM
To: Morgan, Crisha A <camorgan@blm.gov>
Subject: [EXTERNAL] (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

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Crisha:

Attached for your review is the Remediation Work Plan for the Gunner 8 Federal 008H (NAPP2400930878). **(DOR 12-21-2023)**.

- *This WP has been approved by NMOCD.*

Gunner 8 Federal #008H FL

ConocoPhillips

Lea County, New Mexico

DOR: 12/21/2023

INCIDENT ID: NAPP2400930878

Approximate Release Point: 32.052130°,-103.498346°

Landowner: BLM

BACKGROUND

- According to the information provided, the MSO arrived to find standing water near a poly line in the field caused by a leak on a 4" clamp.
 - The MSO shut the line in and retightened the poly line clamp.
 - A total of 2.2 bbls of water spilled, a vacuum truck recovered 0.5 bbls of standing water.
 - There was 1.7 bbls not recovered.
- This release occurred in the pasture on BLM Land.
- Tetra Tech conducted a site visit on January 11, 2024, where surface staining was observed.
- BU representatives shifted the flowlines out of the footprint to facilitate assessment activities.

ASSESSMENT AND WORK PLAN

- Tetra Tech personnel were on-site on February 6, 2024, to conduct assessment activities.
- Shallow refusal was encountered due to the hard caprock layer encountered between 1.5 ft to 2.5 ft bgs.
- Four (4) hand auger borings (AH-1 through AH-4) were installed to a maximum depth of 2.5 ft bgs to delineate the release vertically.
 - Analytical results exceeded chloride RRALS at AH-1 through AH-4.
 - Vertical delineation was not reached.
- Four (4) hand auger borings (AH-5 through AH-6) were installed to 1 ft bgs to delineate the release horizontally.
 - Analytical results were below site RRALS of 600 mg/kg for chlorides and 100 mg/kg for TPH.
 - Horizontal Delineation was achieved.
- Tetra Tech remobilized on February 28, 2024, to conduct further assessment.
 - One trench (T-1) was installed to a maximum depth of 10 ft bgs.
 - Analytical results were exceeding for chloride and TPH at 10' ft bgs above site RRALS of 600 mg/kg for chlorides and 100 mg/kg for TPH.
- On May 16, 2024, Tetra Tech installed two (2) borings (BH-1 and BH-2) to a maximum depth of 25 feet bgs and depth to groundwater boring at 105' with an air rotatory rig.
 - Analytical results for BH-1 and BH-2 were exceeding reclamations RRALS for chloride (600 mg/kg) at the upper 4 ft.
 - Site RRALS are set at 20,000 mg/kg and 1,000 for TPH.
- Tetra Tech proposes to excavate to 4 ft BGS in the approximate release extent presented in Figure 5.

Let me know what you think,

Christian

Christian Llull, P.G. | Program Manager

Mobile +1 (512) 565-0190 | christian.llull@tetrattech.com

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From: Laird, Jacob <Jacob.Laird@conocophillips.com>
Sent: Thursday, July 25, 2024 10:36 AM
To: Llull, Christian <christian.llull@tetratech.com>
Subject: Fwd: (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

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From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Monday, July 1, 2024 8:23:01 AM
To: BLM_NM_CFO_REALTY_Spill <blm_nm_cfo_realty_spill@blm.gov>; Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: (Work Plan) Gunner 8 Federal 008H (NAPP2400930878) 12-21-2023

To Whom it May Concern,

Please find the attached Work Plan for the COG Gunner 8 Federal 008H release that occurred on December 21, 2023. This Work Plan was uploaded to the NMOCD portal today.

Please let me know if you have any questions.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**

O: 432-221-0398 | **C:** 432-349-1911 | 1CC-331 Midland, Texas

Chavira, Lisbeth

From: CFO_Archeology, BLM_NM <BLM_NM_CFO_Archeology@blm.gov>
Sent: Monday, September 30, 2024 11:13 AM
To: Paisley DeFreese
Cc: Chavira, Lisbeth
Subject: Re: [EXTERNAL] NMCRIS 156563- Tetra Tech Inc-Gunner 8 Federal #008H FL

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As far as archaeology is concerned, the remediation is clear to proceed.

Best,

Aaron

From: Paisley DeFreese <Paisley.DeFreese@swca.com>
Sent: Friday, September 27, 2024 4:49 PM
To: CFO_Archeology, BLM_NM <BLM_NM_CFO_Archeology@blm.gov>
Cc: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] NMCRIS 156563- Tetra Tech Inc-Gunner 8 Federal #008H FL

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Good Afternoon,

I just submitted the this report on behalf of Tetra Tech Inc. They requested to be CC'ed on the submittal to know when they can start remediation. I have sent this separate email to not share sensitive locational information.

Please respond with project approval when you have had a chance to review.

Thanks,

Paisley DeFreese | she, her, hers
Associate Project Archaeologist/Permitting Coordinator
*Works 20 hours/week

SWCA Environmental Consultants
7770 Jefferson St NE, Suite 410
Albuquerque, NM 87109
Tel 505.254.1115 Fax 505.254.1116 C 575.740.9012



From: Paisley DeFreese
Sent: Friday, September 27, 2024 4:43 PM
To: CFO_Archeology, BLM_NM <BLM_NM_CFO_Archeology@blm.gov>
Cc: Desiree Christine Martinez <desiree.martinez@swca.com>
Subject: NMCRIS 156563- Tetra Tech Inc-Gunner 8 Federal #008H FL

Good Afternoon,

SWCA is submitting this report on behalf of Tetra Tech Inc. Attached is the NIAF report and the project area shapefiles. Please let me know if there are any questions or if you need anything else. And if the client is approved to start remediation.

Thanks,

Paisley DeFreese | she, her, hers
Associate Project Archaeologist/Permitting Coordinator
*Works 20 hours/week

SWCA Environmental Consultants

7770 Jefferson St NE, Suite 410
Albuquerque, NM 87109
Tel 505.254.1115 Fax 505.254.1116 C 575.740.9012



NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 92816

Performing Agency Report No: 24-715

Other Agencies:

Report Recipient (Your Client): Tetra Tech Inc.

- Activity Types:**
- Research Design
 - Archaeological Survey/Inventory
 - Architectural Survey/Inventory
 - Test Excavation
 - Monitoring
 - Collections/Non-Field Study
 - Compliance Decision
 - Literature Review Overview
 - Excavation
 - Ethnographic Study
 - Resource/Property Visit
 - Historic Structures Report
 - Other:

Total Survey Acreage: 1.25

Total Tribal Acreage: 0.00

Total Resources Visited: 0

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
--------	--------	-------------------------	--------	---------------	-------------------	---------

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Report Details

Type of Report

Type of Report: Negative

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number:

Title of Report

Title of Report: A Class III Cultural Resources Survey for the Gunner 8 Federal #008H FL Inadvertent Release Remediation Project in Lea County, NM

Authors: Andrew Carey and Josh Huck

Publication Type: Report, Monograph, or Book

Description of Undertaking (what does the project entail?)

Description: Tetra Tech, Inc. contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of the Gunner 8 Federal #008H FL inadvertent release remediation project in Lea County, New Mexico. The remediation process will require removing impacted sediments from the contaminated area and replacing them with clean soil. The inadvertent release area consists of 0.05 acres (0.02 ha) and is located approximately 29.9 kilometers (18.5 miles) southwest of Jal, located entirely on Bureau of Land Management (BLM) Carlsbad Field Office (CFO) lands in Lea County, New Mexico.

Dates of Investigation

From: 4-Sep-2024 **To:** 4-Sep-2024

Report Date

Report Date: 27-Sep-2024

Performing Agency/Consultant

Name: SWCA Environmental Consultants

Principal Investigator: Beau Murphy

Field Supervisor: Josh Huck

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Field Personnel Names: N/A

Historian/Other: N/A

Performing Agency Report Number

Report Number: 24-715

Client/Customer (project proponent)

Name: Tetra Tech

Contact: Lisbeth Chavira

Address: 1500 City West, #1000
Houston, TX 77042

Phone: 512.596.8201

Client/Customer Project Number

Project Number:

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Owner/Manager List:	Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
	US Bureau of Land Management Carlsbad Field Office	Class III	1.25	1.25

Total Survey Acreage: 1.25

Total Tribal Acreage: 0

Record Search(es)

Date of HPD/ARMS File Review: 23-Aug-2024

Date of Other Agency File Review:

Survey Data

Source Graphics: NAD 83

USGS 7.5' (1:24,000) topo map Other Topo Map Scale:

GPS Unit <1M

Aerial Photos Other Source Graphic(s):

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic Map(s)

Map Name	USGS Quad Code
Andrews Place, NM	32103-A4

County(ies)

County	FIPS
LEA	35023

Legal Description

Unplatted	Township (N/S)	Range (E/W)	Section
	T26S	R34E	8

Projected Legal Description

Nearest City or Town: Jal

Other Description: N/A

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

GIS

HPD Log No(s).

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Methodology

Survey Field Methods

Intensity: 100% coverage

Configuration: Block Survey Units Linear Survey Units (l x y)

Other Survey Units:

Scope: All Resources

Coverage Method: Systematic Pedestrian Coverage **Other Method:**

Survey Interval (m): 15 **Crew Size:** 1

Fieldwork Dates From 4-Sep-2024 **To** 4-Sep-2024

Survey Person Hours: 2 **Recording Person Hours:** 0

Additional Narrative: A 100 ft clearance buffer was surveyed around the perimeter of the 0.05 acre spill for a total survey area of 1.25 acres. The entire survey area was accessible during fieldwork and successfully inventoried.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

Environmental Setting: The project area is within the Chihuahuan Basins and Playas (24a) U.S. Environmental Protection Agency Level III ecoregion (Griffith et al. 2006). The ecoregion is composed of deep depressions or grabens filled with sediment to form flat to rolling basins. Basins are either alluvial fans, internally drained basins, or river valleys internally drained with ephemeral streams. The geology underlying the project area consists of Holocene and middle Pleistocene eolian deposits along with Holocene and lower Pleistocene piedmont alluvial deposits. These alluvial deposits are from higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. (U.S. Geological Survey 2024). One soil type occurs in the survey area, Pyote soils and dune land (PY). These are sandy eolian deposits that are derived from sedimentary rock. (Natural Resources Conservation Service 2024).

The climate information for the survey area was compiled using the Jal, New Mexico, climate station (294346) data (period of record: March 1, 1919–June 10, 2016). Rainfall for the general project area was most abundant from May through October, averaging 3.63 centimeters (cm) (1.43 inches), with September having the heaviest average precipitation. Snowfall occurred from November through March, but was heaviest between December and February, with an average of 1.88 cm (0.74 inches); annual snowfall averages 8.89 cm (3.5 inches). Average temperatures were coldest in December at -1.56 degrees Celsius (29.2 degrees Fahrenheit) and warmest in July at 35.72 degrees Celsius (96.3 degrees Fahrenheit) (Western Regional Climate Center 2024).

The typical vegetation of the Desert shrub land: creosote bush, tarbush, yuccas, sandsage, viscid acacia, tasajillo, lechuguilla, mesquite, and ceniza. (Griffith et al. 2006). Plants observed during the survey include mesquite, creosote, and prickly pear. Many of the other typical grasses and plants were also collected prehistorically for subsistence and to provide material for non-subsistence use.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Wildlife in the area includes mule deer and coyotes. Also typical to the area are pronghorn, bobcat, badger, cottontail rabbit, black jackrabbit, nine-banded armadillo, peccary, and various species of field mice, skunks, and pack rat (Biota Information System of New Mexico 2024). Important animal species prehistorically included deer, jackrabbit, and cottontail rabbit. Prehistorically, bison were in the region during at least some periods. Bison, pronghorn, deer, and rabbit were important food resources for the prehistoric inhabitants of the region.

Biota Information System of New Mexico

2024 Database Query for Eddy County. Available at: <http://www.bison-m.org/>. Accessed July 2024.

Griffith, G. E., J. M. Omernik, M. M. McGraw, G. Z. Jacobi, C. M. Canavan, T. S. Schrader, D. Mercer, R. Hill, and B. C. Moran

2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Map scale 1:1,400,000. U.S. Geological Survey, Reston, Virginia.

Natural Resources Conservation Service

2024 Web Soil Survey. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed September 2024.

U.S. Geological Survey

2003 New Mexico Resource Geographic Information System Program (NMBGMR500kGeology). Available at: <https://rgis.unm.edu/rgis6/>. Accessed September 2024.

Western Regional Climate Center

2024 New Mexico Climate Summaries. Climate Summary for Jal, New Mexico (COOP Station ID No. 294346). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm4346>. Accessed Sept. 2024.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Methodology

Percent Ground Visibility

Ground Visibility: 51-75%

Condition of Survey Area: The survey area is significantly disturbed by oil and gas infrastructure, including a graded access road, overhead powerlines, a pump station, and above-ground pipelines. Small undisturbed areas, particularly on the northern site, appear to be typical desert flats vegetated with grasses and forbs, mesquite, creosote, pencil cactus, and prickly pears.

Attachments (check all appropriate boxes)

- USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- Copy of NMCRIS Map Check (required)
- LA Site Forms – new sites (with sketch map & topographic map) if applicable
- LA Site Forms (update) – previously recorded & unrelocated sites (first 2 pages minimum)
- Historic Cultural Property Inventory Forms, if applicable
- List and Description of Isolates, if applicable
- List and Description of Collections, if applicable

Other Attachments

- Photographs and Log
- Other attachments **Describe:** BLM FAR From

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Cultural Resource Findings

Investigation Results

- Archaeological Sites Discovered and Registered:** 0
- Archaeological Sites Discovered and NOT Registered:** 0
- Previously Recorded Archaeological Sites Revisited (site update form required):** 0
- Previously Recorded Archaeological Sites Not Relocated (site update form required):** 0
- Total Archaeological Sites (visited & recorded):** 0
- Total Isolates Recorded:** 0
- Non-Selective Isolate Recording
- HCPI Properties Discovered and Registered:** 0
- HCPI Properties Discovered And NOT Registered:** 0
- Previously Recorded HCPI Properties Revisited:** 0
- Previously Recorded HCPI Properties NOT Relocated:** 0
- Total HCPI Properties (visited & recorded, including acequias):** 0

If No Cultural Resources Found, Discuss Why: No cultural resources were found in the project area, and this is due to the size of the survey area (1.25 acres) and in an area that has been heavily disturbed by oil production activities.

Management Summary

Summary: SWCA Environmental Consultants (SWCA) was contracted by Tetra Tech to conduct an intensive pedestrian cultural resources survey for the Gunner 8 Federal #008H FL Inadvertent Release Remediation Project in Lea County, NM. The survey included the 0.05-acre spill area, and a 30-meter (m) (100-foot) cultural resources buffer surrounding the spill site on all sides. The total survey area is 1.25 acres (0.51 hectare [ha]).

In accordance with Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended, a cultural resources inventory was completed to locate, identify, and record any cultural resources that may be affected within the area of potential effects (APE) of the proposed project, and provide recommendations regarding their eligibility for listing in the National Register of Historic Places (NRHP).

No archaeological sites, historic properties, or isolated manifestations (IM) were observed during the current investigation. SWCA does not recommend additional investigation during the current undertaking. If subsurface cultural materials are encountered during the project, all work should cease, and the BLM CFO should be notified immediately.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 6 5 6 3

HPD Log No(s).

Attachments

Documents

Attachment Type	Description	Name	File Type	Size	Upload Date	Upload By
Report/Manuscript	Negative Report	NMCRIS 156563	PDF			Paisley DeFreese



Figure 1. Survey area overview, from western boundary showing spill area, facing east (Frame 5989).



Figure 2. Detail showing oil spill, facing west (Frame 1652).



Figure 3. Survey area overview, from northern boundary, facing south (Frame 1287).



Figure 4. Project overview, from southern boundary showing oil pump in background, facing northeast (Frame 0945).

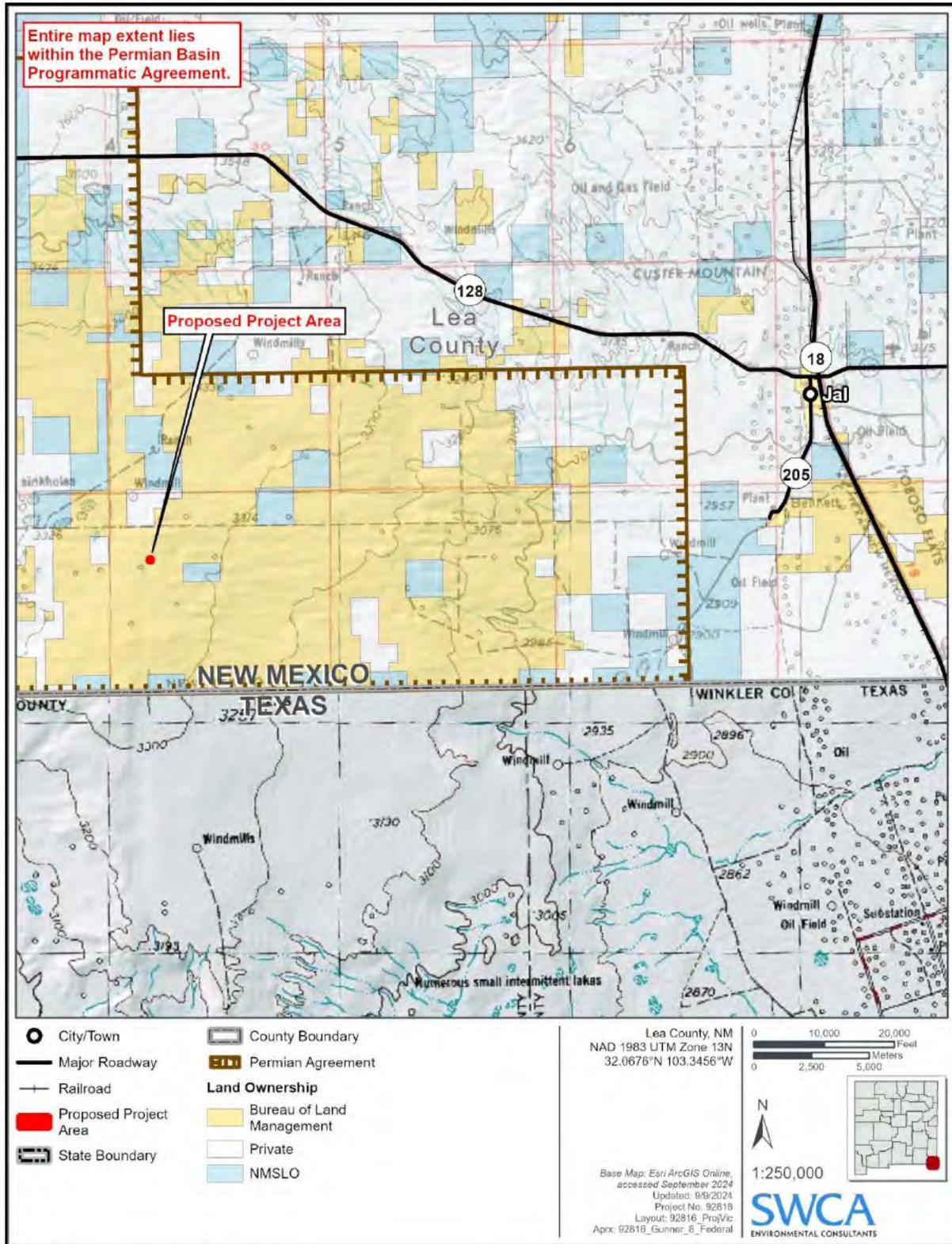


Figure 5. Project Vicinity Map.

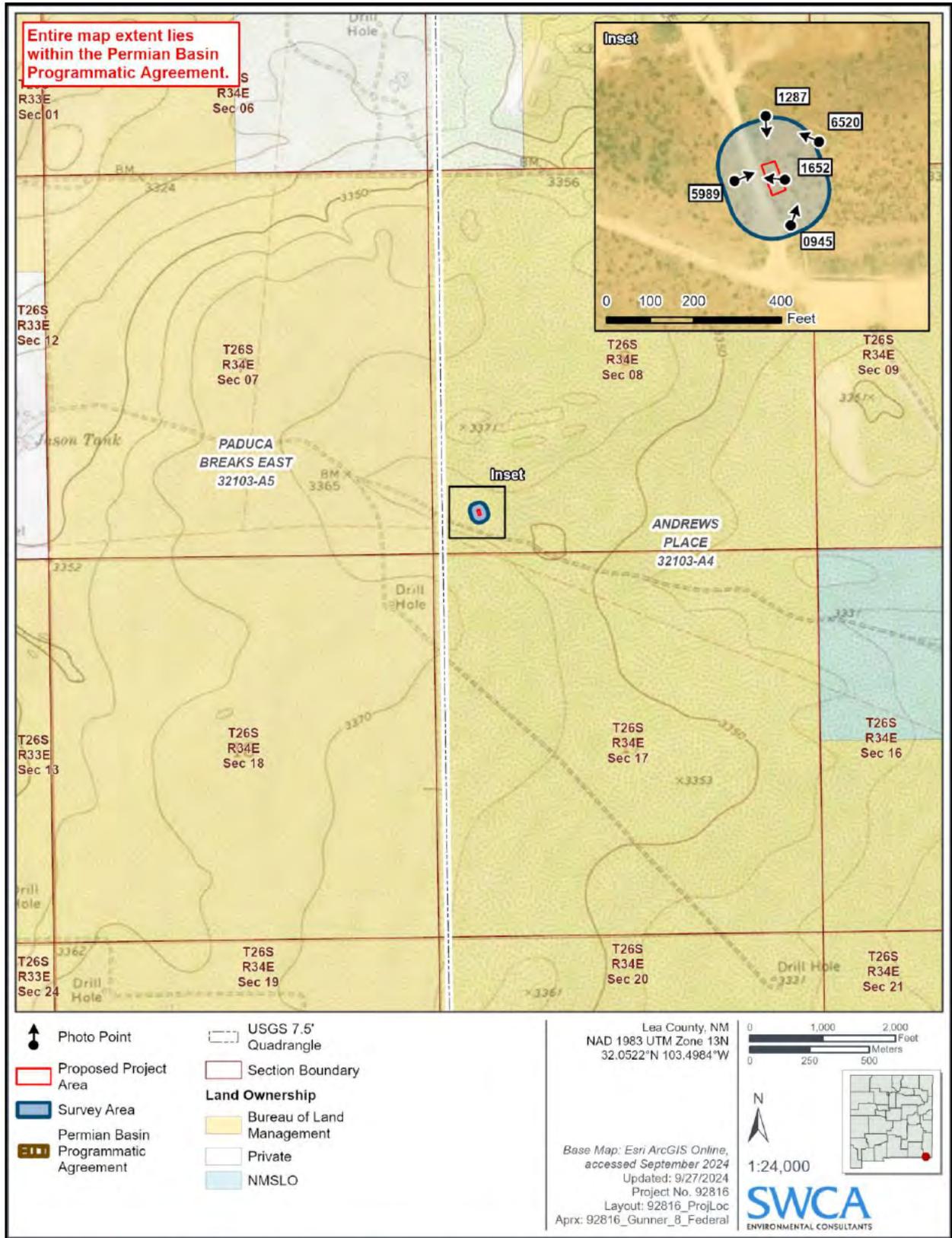


Figure 6. Project Location Map with Cultural Resources.

Table 1. Locational Information for Project Overview Photos within the Survey Area

Photo number	Photo Description	UTM Coordinates for Site Centroid (NAD83, Zone 13)	
		Easting	Northing
Frame 6520	Project overview, from eastern boundary, facing northwest	641795	3547234
Frame 5989	project overview, from western boundary showing spill area, facing east	641737	3547206
Frame 1652	Detail showing oil spill, facing west	641771	3547207
Frame 1287	Project overview, from northern boundary, facing south	641758	3547251
Frame 0945	project overview, from southern boundary showing oil pump in background, facing northeast	641776	3547175

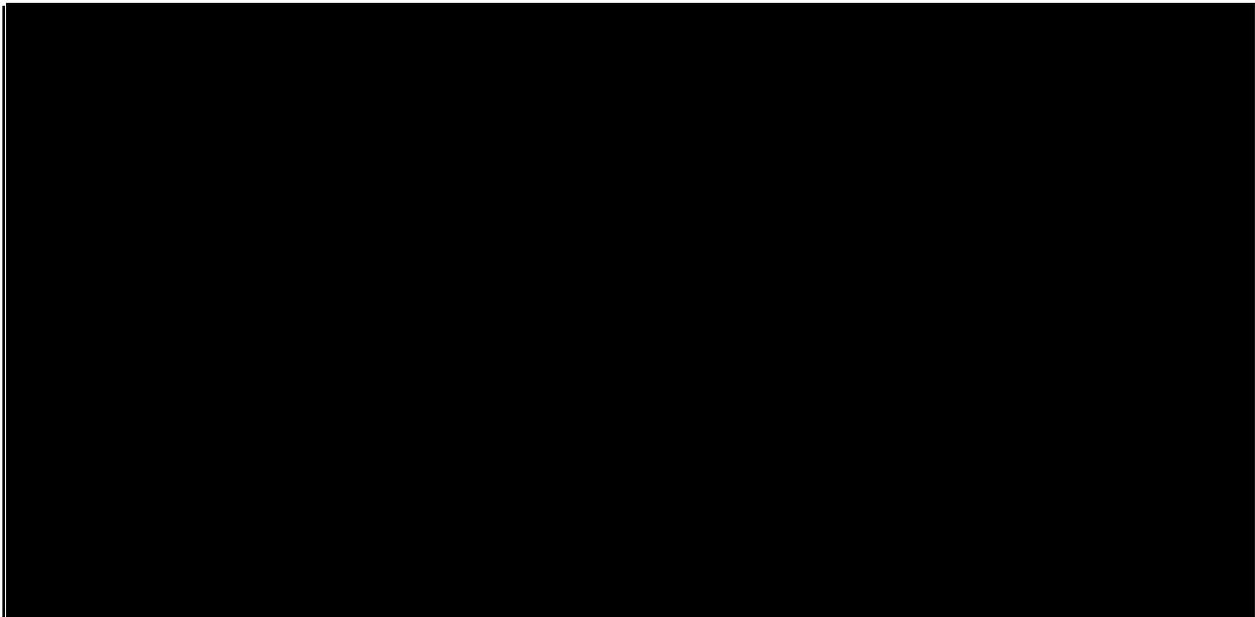


Figure 7. NMCRIS records search of survey area (pink), screenshot. Brown and yellow polygons represent previous surveys in the area. Red and tan polygons represent previously recorded archaeological sites.

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:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe):
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> 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.		
<input type="checkbox"/> Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.		
<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 5/1/2024		Requested End Date: 5/1/2025
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: <input type="checkbox"/> check here if Agent Christian Llull	Contact or Agent: <input type="checkbox"/> check here if Agent
Mailing Address: 8911 N. Capital of Texas Highway Bldg. 2 Suite 2310	Mailing Address:
City: Austin	City:
State: Texas Zip Code: 78759	State: Zip Code:
Phone: 512-565-0190 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): christian.llull@tetrattech.com	E-mail (optional):

USE 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) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)

NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

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 DIT APR 19 2024 AM 11:24

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:

<p>Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> 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.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
<p>Monitoring*: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>			
<p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>			

(* 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 LULL
Print Name(s)

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

[Signature]
Applicant Signature

[Signature]
Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

OSE DIT APR 19 2024 AM 11:23

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 P001 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

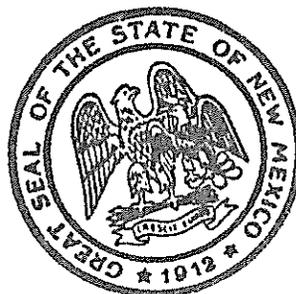
Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 04/19/2024 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

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: 4/10/20 FILE NO.: MW
 TOTAL: 5.00 RECEIVED: Five *7/00 DOLLARS CHECK NO.: 3699 CASH: _____
 PAYOR: Tetra Tech ADDRESS: 8911 W. Capital of Texas Blvd Ste 30 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

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:

Feelex

All fees are non-refundable.



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

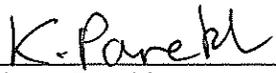
RE: Well Plugging Plan of Operations for well No C-4827-POD1

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,



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 DIT 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

USE ON 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 LULL, 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.

Christian Lull

Signature of Applicant

4/18/2024

Date

OSE DIT APR 19 2024 AM 11:25

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions.

Not approved for the reasons provided on the attached letter.

April

2024

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

Mike A. Hamman P.E.

_____, New Mexico State Engineer

By: K. Parekh
Kashyap Parekh

Water Resources Manager I

WD-08 Well Plugging Plan
Version: March 07, 2022
Page 3 of 5



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			05E DIT APR 19 2024 AM 11:24
Additive 2 percent by dry weight relative to cement			

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 or grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

QSE DIT APR 19 2024 AM 11:24

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)

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

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

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

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@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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

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

CONDITIONS

Action 359846

CONDITIONS

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)

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

Chavira, Lisbeth

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrn.dnm.gov>
Sent: Wednesday, October 2, 2024 10:18 AM
To: Chavira, Lisbeth
Cc: Llull, Christian; Abbott, Sam; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Extension Request - NAPP2400930878 (Gunner 8 Federal #008H FL)

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Your time extension request is approved. Remediation Due date has been updated to December 29, 2024 within the incident page. Please note that this is the second extension. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrn.dnm.gov
<http://www.emnrn.dnm.gov/oed>



From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetratn.dnm.com>
Sent: Tuesday, October 1, 2024 3:44 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrn.dnm.gov>
Cc: Llull, Christian <Christian.Llull@tetratn.dnm.com>; Abbott, Sam <Sam.Abbott@tetratn.dnm.com>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrn.dnm.gov>
Subject: [EXTERNAL] Extension Request - NAPP2400930878 (Gunner 8 Federal #008H FL)

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Mr. Rodgers:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until December 29, 2024) to complete remedial activities and associated reporting for the Gunner 8 Federal #008H FL Site (NAPP2400930878).

The Remediation Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on July 1, 2024. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was conditionally approved by the NMOCD on July 2, 2024, with the following comment:

- *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.*

ConocoPhillips submitted the Work Plan to the Bureau of Land Management (BLM) for their review and approval. On August 21, 2024, Crisha Morgan of the BLM stated that *"the only requirement for this release is an Arch survey as this release falls outside of the previously surveyed space"*.

Tetra Tech contracted SWCA to conduct an archaeological survey per BLM request. SWCA completed the archeological survey for the Gunner 8 Federal 008H on September 4, 2024.

SWCA submitted the archeological report to the BLM via email on September 27, 2024.

The BLM responded yesterday (September 30, 2024), via email with *"as far as archaeology is concerned, the remediation is clear to proceed"*.

Due to completing the additional requirements for the BLM, additional time is required to complete remedial activities. Once the remedial activities are complete, and confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

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

Thank you in advance.

Lisbeth Chavira | Geoscientist

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

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Chavira, Lisbeth

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Wednesday, November 6, 2024 3:46 PM
To: Abbott, Sam
Cc: Chavira, Lisbeth; Llull, Christian
Subject: RE: [EXTERNAL] C-141N Variance Request - NAPP2400930878

Some people who received this message don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

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Good Afternoon,

The variance request for the two-business day notification is approved.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oce>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, November 6, 2024 2:30 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] C-141N Variance Request - NAPP2400930878

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Wednesday, November 6, 2024 1:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>; Llull, Christian <Christian.Llull@tetrattech.com>

Subject: [EXTERNAL] C-141N Variance Request - NAPP2400930878

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Good afternoon,

I am requesting a variance to the two business day notification to continue confirmation sampling outside of the initial notice period. We received exceedances in our initial confirmation sampling and will need to continue sampling today (11/6/2024).

Below and attached is the sampling notice through the OCD Permitting, please let me know if any additional information is needed.

Thank you in advance.

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

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, November 6, 2024 12:11 PM
To: Llull, Christian <christian.llull@tetrattech.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 400001

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2400930878.

The sampling event is expected to take place:

When: 11/06/2024 @ 14:00
Where: M-08-26S-34E 0 FNL 0 FEL (32.0521001,-103.4984001)

Additional Information: The initial round of sampling was conducted on 11/4, and a C-141N was submitted and approved by OCD. Unfortunately, a portion of the analytical results received did not meet action levels, thus an additional sampling event today is warranted today. In addition to this C-141N, we will also request a variance to the two (2) business day notice of sampling via email. Please contact

Lisbeth Chavira at Mobile +1 (512) 596-8201 for additional information.

Additional Instructions: Approximate Release Point: 32.052130°,-103.498346°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505

APPENDIX C

Site Characterization Data

OCD Land ownership



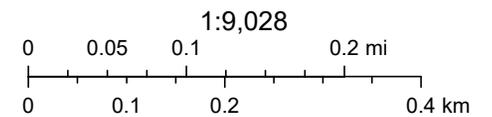
1/24/2024, 1:45:22 PM

Mineral Ownership

Land Ownership

A-All minerals are owned by U.S.

BLM

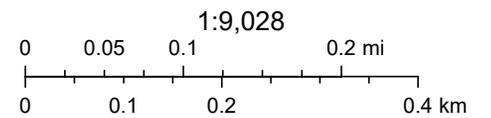


U.S. BLM, Esri, HERE, Garmin, iPC, Maxar

OCD Water Bodies



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



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
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

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

National Flood Hazard Layer FIRMMette



103°30'13"W 32°3'23"N



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 Water Surface Elevation
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



1:6,000

103°29'36"W 32°2'53"N

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.

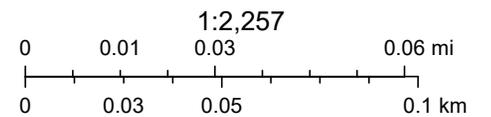
OCD Karst Areas



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

Karst Occurrence Potential

 Low



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

OCD Induced Seismic Area



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

Seismic Response 3.5 and above	Seismic Response 3.0 to 3.4	Seismic Response 2.5 to 2.9
--------------------------------	-----------------------------	-----------------------------

 6 mi.
--

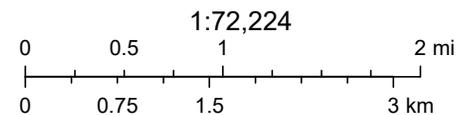
 10 mi.

 6 mi.

 10 mi.
--

 6 mi.
--

 10 mi.



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

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

DEPTH (ft)	OPERATION TYPES	SAMPLE	CHLORIDE CONCENTRATION (ppm)	VOC CONCENTRATION (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	WELL DIAGRAM
												While Drilling	24 Hours After Completion of Drilling		
												While Drilling <input checked="" type="checkbox"/> <u>DRY</u> 24 Hours After Completion of Drilling <input checked="" type="checkbox"/> <u>DRY</u>			
												Remarks:			
												MATERIAL DESCRIPTION			
5											-SP- SAND: Light brown, loose, dry, fine- to coarse-grained, with caliche fragments	5			
10											-SM- SILTY SAND: Brown to dark brown, partially weakly cemented, dry, fine-grained, with large caliche fragments	10			
15											-SP- SAND: Brown, partially weakly cemented, dry, fine- to coarse-grained, with caliche fragments	15			
20											-SP- SAND: Brown, moderately cemented, dry, fine-grained, with clayey sand and caliche fragments	20			
25											-SP- SAND: Light brown to pale brown, partially weakly cemented, fine-grained, with clayey sand and caliche nodules	25			
30											-GM- SAND: Pale brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with caliche fragments	30			
35											-SP- SAND: Pale brown, dry, coarse-grained, with caliche fragments	35			
40											-SC- CLAYEY SAND: Brown, moderately cemented, dry, fine-grained, trace caliche nodules	40			
45											-SC- CLAYEY SAND: Reddish brown, partially weakly, dry, very fine- to fine-grained	45			
50											-SM- SAND: Light brown, loose, dry, very fine-grained, with some indurated clayey sand fragments	50			
55											-SM- SAND: Light brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with some indurated clayey sand fragments	55			
60											-SM- SAND: Light brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with indurated clayey sand fragments	60			
65											-SM- SAND: Brown to reddish brown, loose to partially weakly cemented, dry, very fine- to fine-grained, with indurated clayey sand fragments	65			
70											-- SANDY CLAYSTONE: Light brown to reddish brown, indurated, dry, fine-grained	70			
75											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	75			
80											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	80			
85											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	85			
90											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	90			
95											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	95			
100											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	100			
105											-- SILTSTONE: Light reddish brown, weakly cemented, dry, fine-grained	105			

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: Auger Hollow Stem Auger Continuous Flight Auger Mud Rotary Air Rotary Direct Push Drive Casing	Notes: Surface elevation is an approximate value obtained from Google Earth data.
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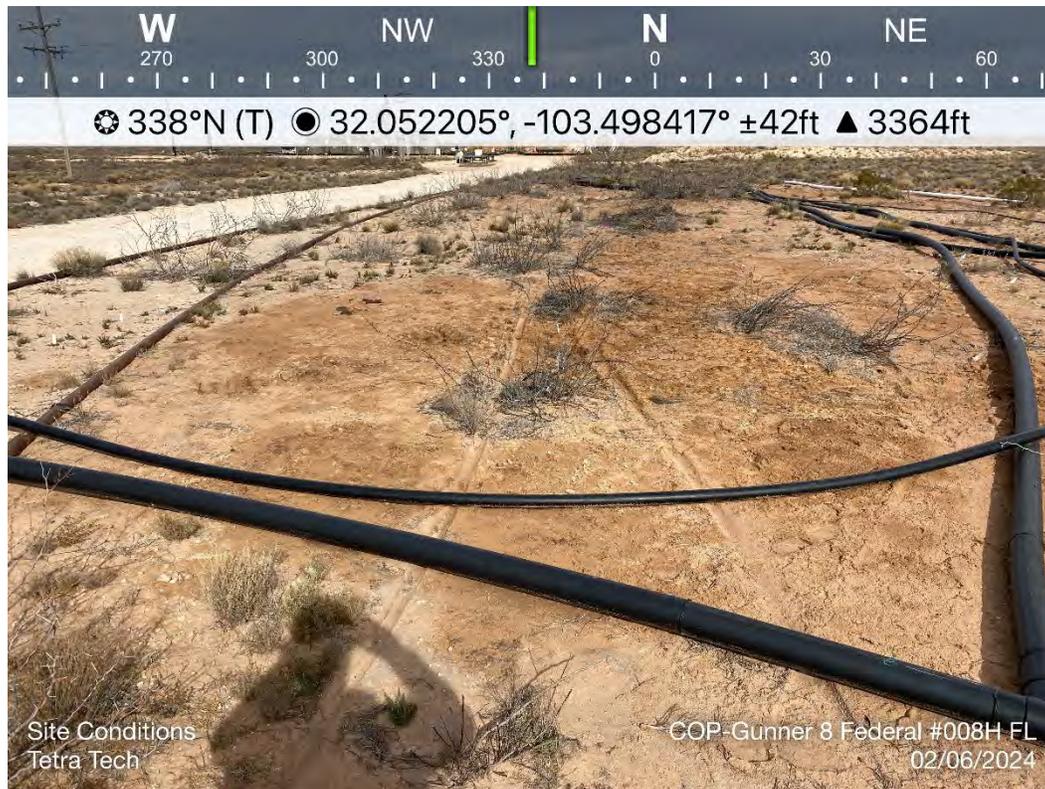
Logger: Colton Bickerstaff Drilling Equipment: Air Rotary Driller: Scarborough Drilling

APPENDIX D

Photographic Documentation



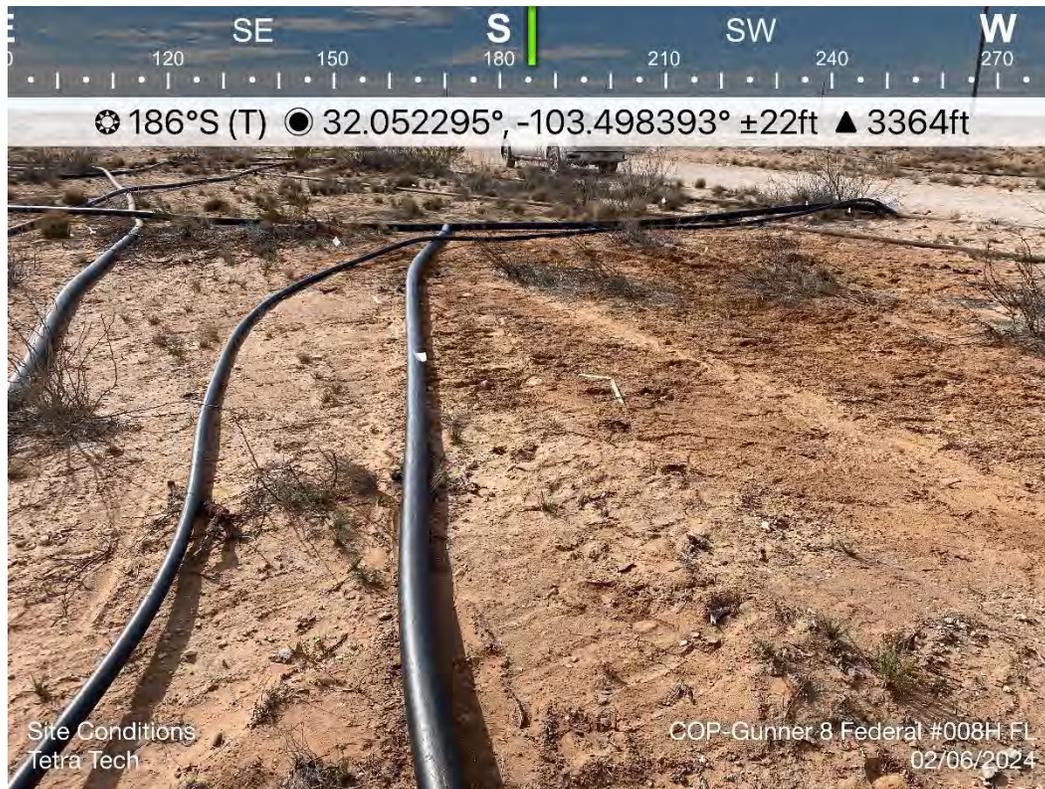
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	Site signage. COG Operating LLC, Gunner 8 Federal #8H and location information.	1
	SITE NAME	Gunner 8 Federal #008H Flowline Release	1/11/2024



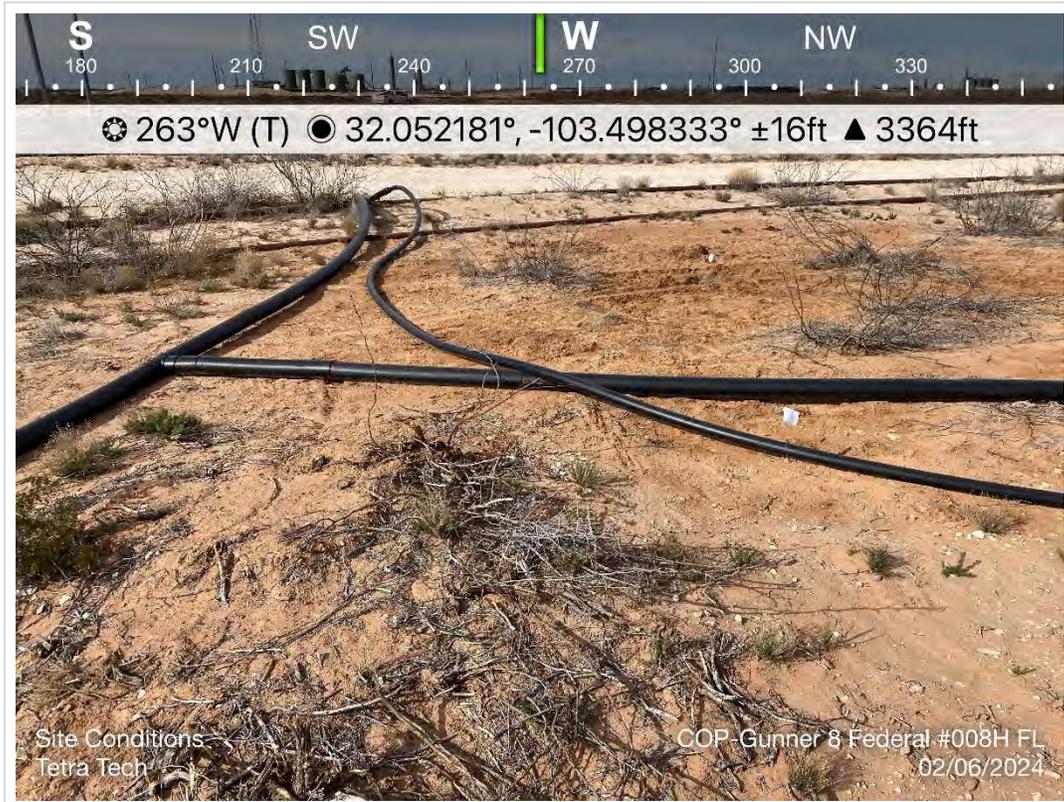
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View north northwest. Release area, surface polylines and steel lines.	2
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



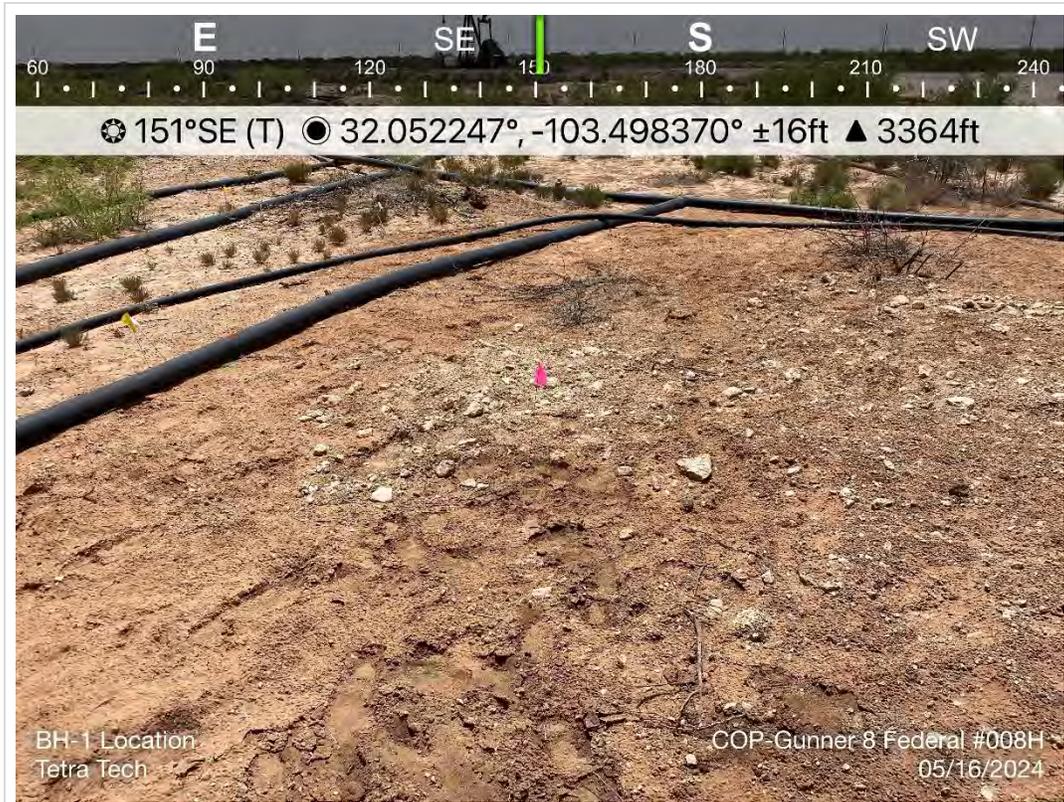
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View east. Release area and surface polylines.	3
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



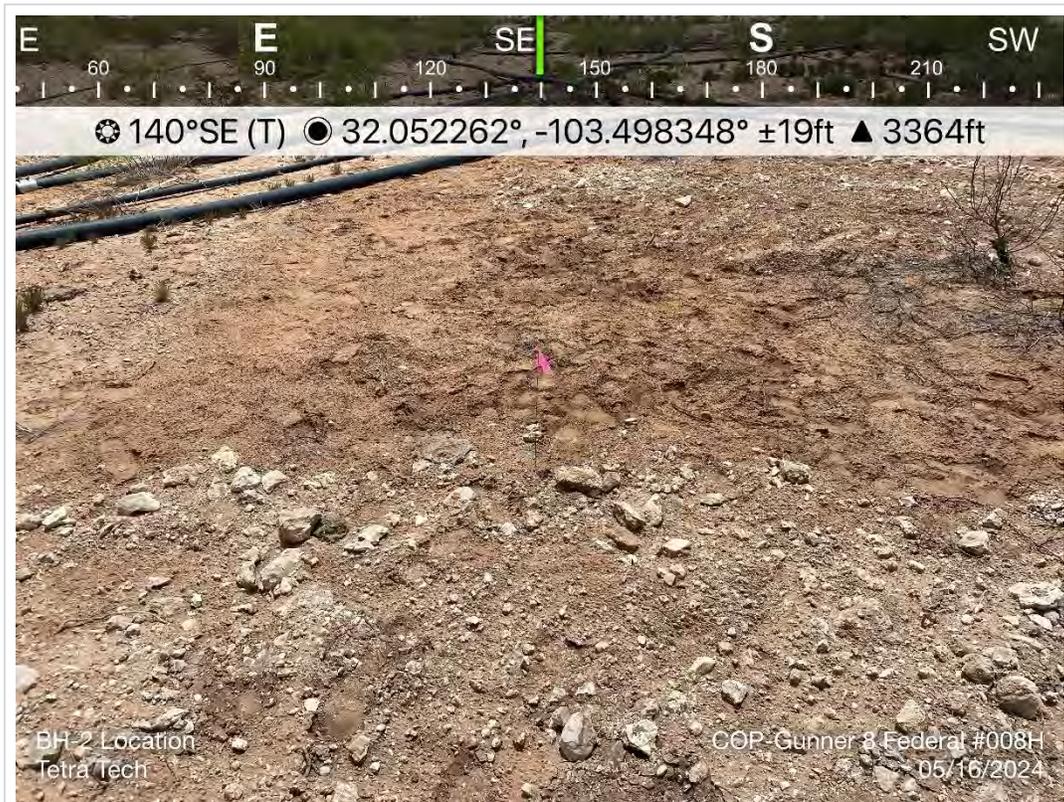
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View south. Release area and surface polylines.	4
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



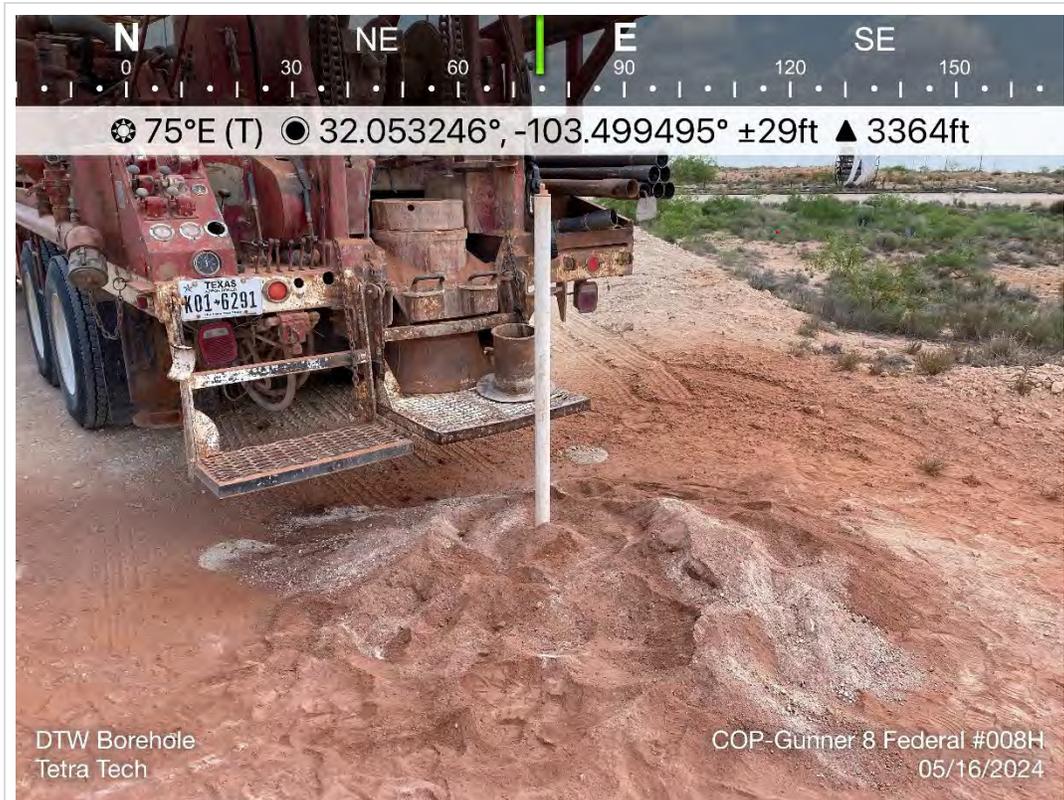
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View west towards lease road. Release area and surface polylines	5
	SITE NAME	Gunner 8 Federal #008H Flowline Release	2/6/2024



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



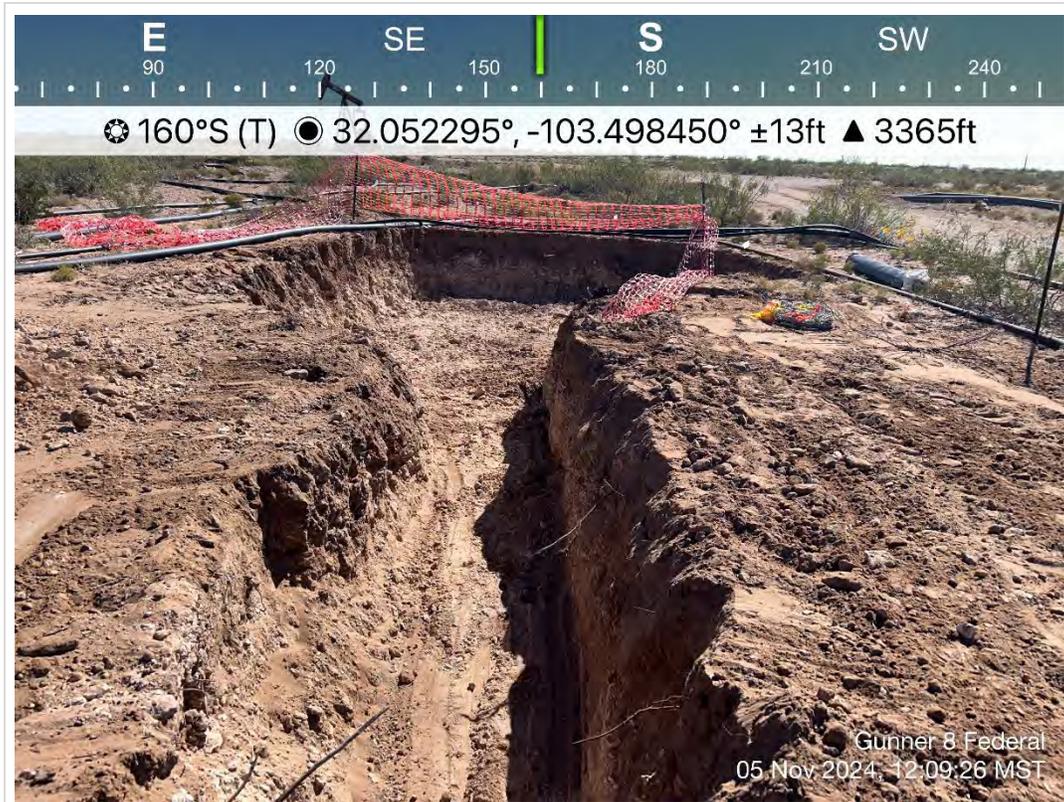
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View southeast. Borehole location BH-2. Release area and surface polylines.	7
	SITE NAME	Gunner 8 Federal #008H Flowline Release	5/16/2024



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



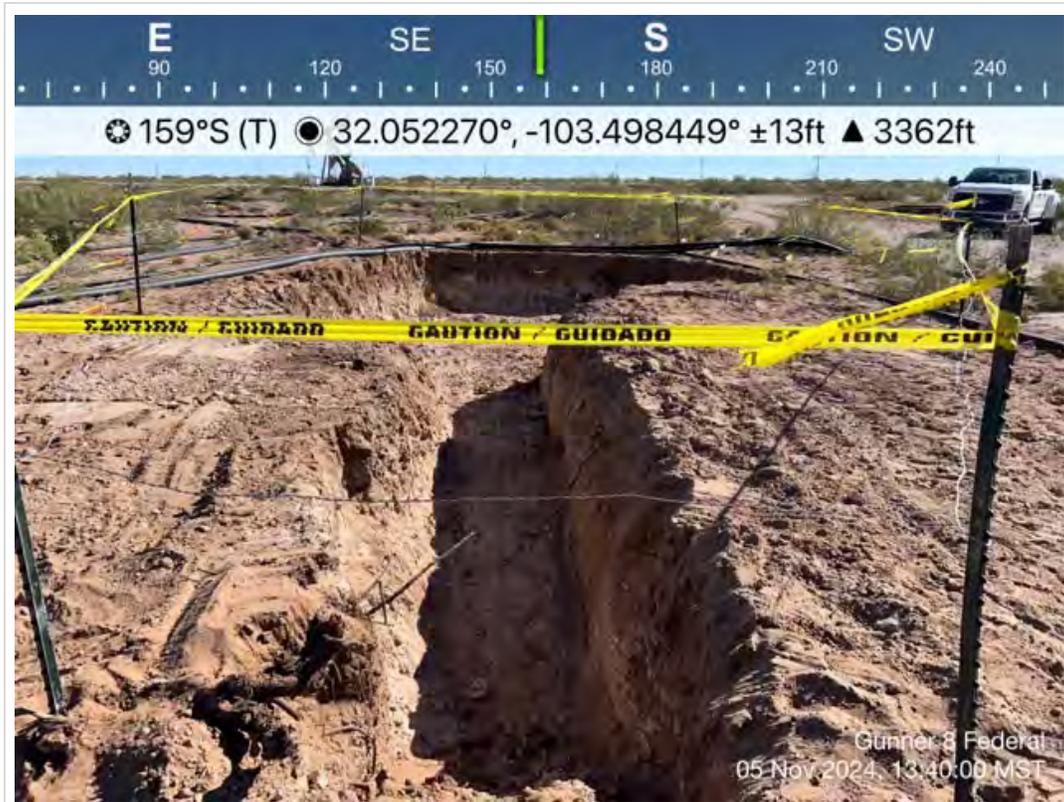
TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View northeast. View of remediation extent.	9
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/5/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View southeast south. View of remediation extent.	10
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/5/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View southeast. Borehole location BH-2. Release area and surface polylines.	11
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/5/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View south. View of remediation extent.	12
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/5/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	Seed Mix Used for Reclamation Activities	13
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/7/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View east. View of release area remediated and seeded.	14
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/7/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View northeast. View of release area remediated and seeded.	15
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/7/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03343	DESCRIPTION	View southeast. View of release area remediated and seeded.	16
	SITE NAME	Gunner 8 Federal #008H Flowline Release	11/7/2024

APPENDIX E

Waste Manifests



(PLEASE PRINT) *REQUIRED INFORMATION*

Name _____
Phone No. _____

GENERATOR

NO. HW- 711600

Generator Manifest # _____
Generator Name ConocoPhillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin
Lease/Well Name & No. Burner 8 Fed 8H
County FL Release
API No. _____
Rig Name & No. 30-025-40309
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS			
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____				
Water Based Muds _____	Completion Fluid/Flow Back (Non-Injectable) _____				
Water Based Cuttings _____	Produced Water (Non-Injectable) _____				
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____				
Tank Bottoms _____	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES			
E&P Contaminated Soil <input checked="" type="checkbox"/>	Truck Washout (exempt waste) YES NO	QUANTITY	TOP SOIL	CALICHE	
Gas Plant Waste _____					

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 13 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
 - MSDS Information
 - RCRA Hazardous Waste Analysis
 - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

432-250-9945 Cotton Bickertstaff

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name MCKabb
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Victor M.
Print Name _____
Phone No. _____
Truck No. M38

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE 11-5-24

DRIVER'S SIGNATURE VICTOR HANZARD

DISPOSAL FACILITY

RECEIVING AREA

TRUCK TIME STAMP
IN: 8:50 OUT: 9:05

Name/No. _____

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? None

NAME (PRINT)

DATE

TITLE

SIGNATURE



(PLEASE PRINT) *REQUIRED INFORMATION*

Name _____
Phone No. _____

GENERATOR

NO. HW- 715109

Generator Manifest # _____
Generator Name CONOCO-Phillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin _____
Lease/Well _____
Name & No. Gunner 8 Federal 0084 FL Release
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS			
Oil Based Cuttings	_____		<u>End Dump</u>			
Water Based Muds	_____	Washout Water (Non-Injectable)				_____
Water Based Cuttings	_____	Completion Fluid/Flow Back (Non-Injectable)				_____
Produced Formation Solids	_____	Produced Water (Non-Injectable)				_____
Tank Bottoms	_____	Gathering Line Water/Waste (Non-Injectable)	_____			
E&P Contaminated Soil	<input checked="" type="checkbox"/>	INTERNAL USE ONLY		TOP SOIL & CALICHE SALES		
Gas Plant Waste	_____	Truck Washout (exempt waste)	YES	<input checked="" type="checkbox"/> NO	QUANTITY	

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 18 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- MSDS Information RCRA Hazardous Waste Analysis Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____

DATE _____

SIGNATURE Cotton B.

TRANSPORTER

Transporter's Name McNabb Partners
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Fidencio Trevino Jr
Print Name _____
Phone No. _____
Truck No. M87

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____

DRIVER'S SIGNATURE _____

DELIVERY DATE 11-5-2024

DRIVER'S SIGNATURE Fidencio Trevino Jr

TRUCK TIME STAMP

IN: 9:23 OUT: 9:41

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 1203

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

Feet _____ Inches _____

1st Gauge	_____
2nd Gauge	_____
Received	_____

BS&W/BBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? _____

NAME (PRINT) _____

DATE 11-5-24

TITLE Receiver

SIGNATURE File

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Scot Laird
Phone No. 505-763-5482

GENERATOR

NO. HW-711608

Generator Manifest # _____
Generator Name Chasoco Phillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin
Lease/Well Name & No. GUNNER 8 FEDERAL COB
County _____
API No. 30-025-40309
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT E&P WASTE STREAMS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>DUMP TRUCK - M-38</u>	_____
Water Based Muds	_____	Completion Fluid/Flow Back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____	TOP SOIL & CALICHE SALES	_____
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	YES _____ NO <u>(X)</u>	QUANTITY	_____
Gas Plant Waste	_____			TOP SOIL	_____
				CALICHE	_____

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS _____ L - LIQUID 13 Y - YARDS _____ E - EACH _____

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
 - MSDS Information
 - RCRA Hazardous Waste Analysis
 - Other (Provide Description Below) _____
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE _____ DATE _____ SIGNATURE _____

TRANSPORTER

Transporter's Name _____
Address 1111 Nabb PARTNERS
Phone No. _____
Transporter Ticket # _____

Driver's Name VICTOR MONTANO
Print Name _____
Phone No. _____
Truck No. M-38

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE _____ DRIVER'S SIGNATURE _____ DELIVERY DATE 11-5-24 DRIVER'S SIGNATURE VICTOR MONTANO

TRUCK TIME STAMP IN: <u>10:18</u> OUT: <u>10:35</u>	DISPOSAL FACILITY	RECEIVING AREA Name/No. <u>pad 3</u>
--	-------------------	---

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES _____ NO (X)
PASS THE PAINT FILTER TEST? (Circle One) YES _____ NO (X)
If YES, was reading > 50 micro roentgens? (Circle One) YES _____ NO _____

TANK BOTTOMS

1st Gauge	Feet _____	Inches _____	BS&W/BBLs Received	BS&W (%) _____
2nd Gauge	_____	_____	Free Water	_____
Received	_____	_____	Total Received	_____

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED _____ If denied, why? None
NAME (PRINT) PLM DATE 11-5-24 TITLE Receiver SIGNATURE _____



(PLEASE PRINT) *REQUIRED INFORMATION*

Name _____

Phone No. _____

GENERATOR

NO. HW- 715108

Generator Manifest # _____
Generator Name conoco phillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin _____
Lease/Well _____
Name & No. Guyton B Falca / #008H FL Release
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns: Oil Based Muds, Water Based Muds, Produced Formation Solids, Tank Bottoms, E&P Contaminated Soil, Gas Plant Waste, NON-INJECTABLE WATERS, INTERNAL USE ONLY, OTHER EXEMPT E&P WASTE STREAMS, TOP SOIL & CALICHE SALES.

WASTE GENERATION PROCESS: [] DRILLING [] COMPLETION [] PRODUCTION [] GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS 18 E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended.
MSDS Information [] RCRA Hazardous Waste Analysis [] Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name McNabb Partners
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Fidencio Trevino Jr
Print Name _____
Phone No. _____
Truck No. 1187

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 11:23 OUT: 11:18

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 10003

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

Feet Inches

Table for Tank Bottoms measurements: 1st Gauge, 2nd Gauge, Received

Table for Tank Bottoms measurements: BS&W/BBLs Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST

Company Main Contact Information

(PLEASE PRINT) *REQUIRED INFORMATION*

Name Jacob Laird

Phone No.

GENERATOR

NO. HW-711607

Generator Manifest #
Generator Name Conoco Phillips
Address
City, State, Zip
Phone No.

Location of Origin
Lease/Well
Name & No. GUNNER # 8 FEDERAL # 008
County
API No. 30-025-
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Table with columns for waste types (Oil Based Muds, Water Based Muds, etc.), NON-INJECTABLE WATERS, INTERNAL USE ONLY, and OTHER EXEMPT E&P WASTE STREAMS. Includes handwritten 'DUMP TRUCK - 11-38'.

WASTE GENERATION PROCESS: [] DRILLING [] COMPLETION [X] PRODUCTION [] GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 13 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations.
MSDS Information
RCRA Hazardous Waste Analysis
Other (Provide Description Below)
EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name
Address 1116 Nobb Partners
Phone No.
Transporter Ticket #

Driver's Name
Print Name
Phone No.
Truck No. 11-38

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE 11-5-24 DRIVER'S SIGNATURE VICTOR MANZANO

TRUCK TIME STAMP

IN: 11:25 OUT: 11:40

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 1003

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

Table for Tank Bottoms measurements: 1st Guage, 2nd Guage, Received, Feet, Inches.

Table for Tank Bottoms analysis: BS&W/BBLS Received, Free Water, Total Received, BS&W (%)

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED
NAME (PRINT) DATE TITLE SIGNATURE



(PLEASE PRINT) *REQUIRED INFORMATION*

Name _____
Phone No. _____

GENERATOR

NO. **HW-711609**

Generator Manifest # _____
Generator Name Conoco Phillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin _____
Lease/Well Name & No. Gunner 8 Fedral #008H FZ R11111
County _____
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	Washout Water (Non-Injectable)	_____	OTHER EXEMPT E&P WASTE STREAMS	<u>End dump</u>			
Oil Based Cuttings	_____		Completion Fluid/Flow Back (Non-Injectable)	_____					
Water Based Muds	_____		Produced Water (Non-Injectable)	_____					
Water Based Cuttings	_____		Gathering Line Water/Waste (Non-Injectable)	_____					
Produced Formation Solids	_____		INTERNAL USE ONLY						
Tank Bottoms	_____	Truck Washout (exempt waste)	YES	NO	QUANTITY	<u>18</u>	TOP SOIL	CALICHE	
E&P Contaminated Soil	_____								
Gas Plant Waste	_____								

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
 - MSDS Information
 - RCRA Hazardous Waste Analysis
 - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE Colton B.

TRANSPORTER

Transporter's Name McNabb Partners
Address _____
Phone No. _____
Transporter Ticket # _____

Driver's Name Fidencio Trevino Jr
Print Name _____
Phone No. _____
Truck No. M87

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE 11-5-2024

DRIVER'S SIGNATURE Fidencio Trevino Jr

TRUCK TIME STAMP

IN: 1:20 OUT: 1:35

DISPOSAL FACILITY

RECEIVING AREA

Name/No. pad 3

Site Name/ Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED - If denied, why? received

NAME (PRINT)

DATE 11-5-24

TITLE

SIGNATURE Colton B.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST



(PLEASE PRINT) *REQUIRED INFORMATION*

Name Scott Laird
Phone No. 703-54-82

GENERATOR

NO. HW-706742

Generator Manifest # _____
Generator Name Carlsbad Phillips
Address _____
City, State, Zip _____
Phone No. _____

Location of Origin
Lease/Well Name & No. GRANER & FEDERAL 0024
County 30-025-40309
API No. _____
Rig Name & No. _____
AFE/PO No. _____

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT E&P WASTE STREAMS	
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>DUMP TRUCK - M-38</u>	
Water Based Muds	Completion Fluid/Flow Back (Non-Injectable)		
Water Based Cuttings	Produced Water (Non-Injectable)		
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	INTERNAL USE ONLY	TOP SOIL & CALICHE SALES	
E&P Contaminated Soil	Truck Washout (exempt waste)	YES	NO
Gas Plant Waste		QUANTITY	TOP SOIL CALICHE

WASTE GENERATION PROCESS: DRILLING COMPLETION PRODUCTION GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from Non-Exempt Waste List on back

DISPOSAL QUANTITY B - BARRELS L - LIQUID 13 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operation and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
 - MSDS Information
 - RCRA Hazardous Waste Analysis
 - Other (Provide Description Below)
- EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name _____
Address 110 North Partners
Phone No. _____
Transporter Ticket # _____

Driver's Name VICTOR MANZANO
Print Name _____
Phone No. _____
Truck No. M38

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE 11-7-24

DRIVER'S SIGNATURE VICTOR MANZANO

TRUCK TIME STAMP

IN: 10:09 AM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Pad 3

Site Name/Permit No. Halfway Facility / NM1-006 R360 H.D
Address 6601 Hobbs Hwy US 62 / 180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-392-6368

NORM READINGS TAKEN? (Circle One) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT) Kristen White

DATE 11/7/24

TITLE Receiver

SIGNATURE [Signature]

APPENDIX F

Laboratory Analytical Data



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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

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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, SM4500CI-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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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, SM4500CI-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



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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



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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	AH-1 (0-1')	G	1	X						2/6/2024	X	X	X	
2	AH-1 (2-2.5')	G	1	X						2/6/2024	X	X	X	
3	AH-2 (0-1')	G	1	X						2/6/2024	X	X	X	
4	AH-2 (2-2.25')	G	1	X						2/6/2024	X	X	X	
5	AH-3 (0-1')	G	1	X						2/6/2024	X	X	X	
6	AH-4 (0-1')	G	1	X						2/6/2024	X	X	X	
7	AH-4 (1-1.5')	G	1	X						2/6/2024	X	X	X	
8	AH-5 (0-1')	G	1	X						2/6/2024	X	X	X	
9	AH-6 (0-1')	G	1	X						2/6/2024	X	X	X	
10	AH-7 (0-1')	G	1	X						2/6/2024	X	X	X	

FOR LAB USE ONLY
 Received By: [Signature]
 Date: 2/7/24
 Time: 11:12
 Observed Temp, °C: 34
 Corrected Temp, °C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Remarks: Verbal Result: Yes No
 Add'l Phone #: [Blank]
 Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

Relinquished By: Colton Bickerstaff
 Relinquished Date: [Blank]
 Relinquished Time: [Blank]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp, °C: 34
 Corrected Temp, °C: [Blank]
 Sample Condition: Cool Intact
 Checked By: [Signature]
 Remarks: Verbal Result: Yes No
 Add'l Phone #: [Blank]
 Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

FORM-006 R 1.2 1/007/21
 † Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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, Lab Director/Quality Manager



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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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 (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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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, Lab Director/Quality Manager



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, SM4500CI-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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Christian Lull
 Address: 8911 Capital o Texas Hwy, Suite 2310
 City: Austin State: TX Zip:
 Phone #: (512)565-0190 Fax #:
 Project #: 212C-MD-03343 Project Owner: ConocoPhillips
 Project Name: Gunner 8 Federal #008H Flowline Release
 Project Location: Lea County, New Mexico
 Sampler Name: Colton Bickerstaff
 Lab I.D.:

P.O. #:
 Company: Tetra Tech
 Attn: Christian Lull
 Address: EMAIL
 City:
 State: Zip:
 Phone #:
 Fax #:

Sample I.D.	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H244000	T-1 (0-1')	G	1	X					2/28/2024		X	X	X	
	T-1 (2-3')	G	1	X					2/28/2024		X	X	X	
	T-1 (3-4')	G	1	X					2/28/2024		X	X	X	
	T-1 (5-6')	G	1	X					2/28/2024		X	X	X	
MFS	T-1 (7-8')	G	1	X					2/28/2024		X	X	X	
	T-1 (9-10')	G	1	X					2/28/2024		X	X	X	

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Relinquished By: Colton Bickerstaff
 Date: 2/28/24
 Received By: Speed Keene
 Date: 2/28/24
 Time: 1:50
 Observed Temp. °C: 1.9
 Corrected Temp. °C:
 Sample Condition: Cool Moist
 Checked By: (Initials) SKC
 Remarks: All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com
 Add'l Phone #:
 Forwarded Time: Standard Bucket - (100%) Sample Condition
 Right: Cool Moist
 Observed Temp. °C:
 Thermometer ID: #443
 Correction Factor: #140
 Add'l Phone #:
 Yes No
 Yes No
 Yes No
 Yes No

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

FORM-006 R 3.2 10/07/21



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 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, SM4500CI-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, Lab Director/Quality Manager



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, SM4500CI-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



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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Celey D. Keene, Lab Director/Quality Manager



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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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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, SM4500CI-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, Lab Director/Quality Manager



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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, Lab Director/Quality Manager



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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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:	
Project Manager: Christian Lull		Company: Tetra Tech	
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Christian Lull	
City: Austin	State: TX	Zip:	
Phone #: (512)565-0190	Fax #: 74750	Address: EMAL	
Project #: 212C-MD-03343	Project Owner: ConocoPhillips	City:	State:
Project Name: Summer 8 Federal #008H Flowline Release		State:	Zip:
Project Location: Lea County, New Mexico		Phone #:	Fax #:
Sampler Name: Colton Bicklerstaff		Lab I.D.:	

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

REMARKS: All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabstnm.com



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

October 30, 2024

LISBETH CHAVIRA

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 10/29/24 14:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/29/2024	Sampling Date:	10/29/2024
Reported:	10/30/2024	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:	COP - LEA COUNTY,NM		

Sample ID: BACKFILL - COMPOSITE (H246559-01)

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	10/29/2024	ND	2.05	102	2.00	1.48	
Toluene*	<0.050	0.050	10/29/2024	ND	2.03	102	2.00	1.21	
Ethylbenzene*	<0.050	0.050	10/29/2024	ND	2.08	104	2.00	0.00394	
Total Xylenes*	<0.150	0.150	10/29/2024	ND	6.22	104	6.00	0.456	
Total BTEX	<0.300	0.300	10/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/30/2024	ND	416	104	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	10/29/2024	ND	220	110	200	4.28	
DRO >C10-C28*	<10.0	10.0	10/29/2024	ND	213	106	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/29/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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Celey D. Keene, Lab Director/Quality Manager



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November 05, 2024

LISBETH CHAVIRA

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 11/04/24 15:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: FS - 1 (H246695-01)

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	11/05/2024	ND	1.86	93.1	2.00	11.1	
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28	
Total BTEX	<0.300	0.300	11/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	11/05/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: FS - 2 (H246695-02)

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	11/05/2024	ND	1.86	93.1	2.00	11.1		
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28		
Total BTEX	<0.300	0.300	11/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22000	16.0	11/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: FS - 3 (H246695-03)

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	11/05/2024	ND	1.86	93.1	2.00	11.1		
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28		
Total BTEX	<0.300	0.300	11/05/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	11/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: NSW - 1 (H246695-04)

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	11/05/2024	ND	1.86	93.1	2.00	11.1		
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: SSW - 1 (H246695-05)

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	11/05/2024	ND	1.86	93.1	2.00	11.1		
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: ESW - 1 (H246695-06)

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	11/05/2024	ND	1.86	93.1	2.00	11.1	
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34	
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28	
Total BTEX	<0.300	0.300	11/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/05/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1	
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5	
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/04/2024	Sampling Date:	11/04/2024
Reported:	11/05/2024	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:	COP - LEA COUNTY,NM		

Sample ID: WSW - 1 (H246695-07)

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	11/05/2024	ND	1.86	93.1	2.00	11.1		
Toluene*	<0.050	0.050	11/05/2024	ND	1.79	89.6	2.00	10.2		
Ethylbenzene*	<0.050	0.050	11/05/2024	ND	1.81	90.7	2.00	8.34		
Total Xylenes*	<0.150	0.150	11/05/2024	ND	5.39	89.8	6.00	8.28		
Total BTEX	<0.300	0.300	11/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/05/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2024	ND	187	93.5	200	23.1		
DRO >C10-C28*	<10.0	10.0	11/04/2024	ND	176	88.1	200	26.5		
EXT DRO >C28-C36	<10.0	10.0	11/04/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:					
	1	FS-1	C 1	X						11/4/2024	13:00	X	X	X
	2	FS-2	C 1	X						11/4/2024	13:10	X	X	X
	3	FS-3	C 1	X						11/4/2024	13:20	X	X	X
	4	NSW-1	C 1	X						11/4/2024	13:30	X	X	X
	5	SSW-1	C 1	X						11/4/2024	13:40	X	X	X
	6	ESW-1	C 1	X						11/4/2024	13:50	X	X	X
	7	WSW-1	C 1	X						11/4/2024	14:00	X	X	X

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Relinquished By: Colton Bickerstaff
 Date: 11/4/24
 Received By: *[Signature]*
 Date: 11/5/24
 Observed Temp. °C: 14.4
 Corrected Temp. °C: 3.82
 Sample Condition: Cool Inhibit
 Checked By: *[Signature]*
 Forward Time: Standard Bacteria (only) Sample Condition
 Serial: 158 200 147
 Thermometer ID #140
 Correction Factor: 0°C
 Observed Temp. °C: Yes No
 Corrected Temp. °C: Yes No

FORN-006 R 3.2 1807/21
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

November 06, 2024

LISBETH CHAVIRA

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 11/06/24 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/06/2024	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:	COP - LEA COUNTY,NM		

Sample ID: FS - 2 (5') (H246762-01)

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	11/06/2024	ND	1.92	96.1	2.00	14.4	
Toluene*	<0.050	0.050	11/06/2024	ND	1.98	99.1	2.00	15.1	
Ethylbenzene*	<0.050	0.050	11/06/2024	ND	1.89	94.5	2.00	16.5	
Total Xylenes*	<0.150	0.150	11/06/2024	ND	6.08	101	6.00	14.6	
Total BTEX	<0.300	0.300	11/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	11/06/2024	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	11/06/2024	ND	201	100	200	0.754	
DRO >C10-C28*	<10.0	10.0	11/06/2024	ND	189	94.5	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	11/06/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/06/2024	Sampling Date:	11/06/2024
Reported:	11/06/2024	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:	COP - LEA COUNTY,NM		

Sample ID: FS - 3 (5') (H246762-02)

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	11/06/2024	ND	1.92	96.1	2.00	14.4	
Toluene*	<0.050	0.050	11/06/2024	ND	1.98	99.1	2.00	15.1	
Ethylbenzene*	<0.050	0.050	11/06/2024	ND	1.89	94.5	2.00	16.5	
Total Xylenes*	<0.150	0.150	11/06/2024	ND	6.08	101	6.00	14.6	
Total BTEX	<0.300	0.300	11/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	11/06/2024	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	11/06/2024	ND	201	100	200	0.754	
DRO >C10-C28*	<10.0	10.0	11/06/2024	ND	189	94.5	200	0.390	
EXT DRO >C28-C36	<10.0	10.0	11/06/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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*=Accredited Analyte

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

Company Name: Tetra Tech

Project Manager: Lisbeth Chavira

Address: 8911 Capital Of Texas Hwy, Suite 2310

City: Austin State: TX Zip:

Phone #: (512) 566-0190 Fax #:

Project #: 212C-MD-03343 Project Owner: ConocoPhillips

Project Name: Gunner 8 Federal #008H Flowline Release

Project Location: Lea County, New Mexico

Sampler Name: William B. Erndson

Lab I.D.:

BILL TO

P.O. #:

Company: Tetra Tech

Attn: Lisbeth Chavira

Address: EMAIL

City: State: Zip:

Phone #: Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1	FS-2 (S)	C	1	X					1/16/2024	9:00	X	X	X	
2	FS-3(S)	C	1	X					1/16/2024	9:10	X	X	X	

ALLAZZ NOTE: Liability and Coverage: Cardinal's liability and coverage is limited to the amount of the fee charged for the analysis. All claims including those for negligence and any other claims 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 the fee be liable for removal or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: William B. Erndson

Date: 1/16/24

Received By: [Signature]

Date: 1/30/24

Observed Temp. °C: 41.1

Corrected Temp. °C: 35

Sample Condition: Cool Frag No No

Checked By: [Signature]

Thermometer ID: 7146

Correction Factor: -0.01

Standard Backs (only Sample Condition)

Thermometer ID: 7146

Correction Factor: -0.01

Observed Temp. °C: []

Corrected Temp. °C: []

Remarks: []

Verbal Result: Yes No

All Results are emailed. Please provide Email address: Lisbeth.Chavira@tetratech.com

Add'l Phone #: []

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalabslabnm.com

FORM-006 R.3.2 1/07/21

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

QUESTIONS

Action 417846

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
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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**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 2

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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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Oil Conservation Division
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QUESTIONS, Page 3

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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
<i>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.</i>	
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, Page 4

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(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)	No

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: 01/07/2025
--	---

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, Page 5

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	400001
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	537

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	537
What was the total volume (cubic yards) remediated	106
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	537
What was the total volume (in cubic yards) reclaimed	106
Summarize any additional remediation activities not included by answers (above)	NA

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	537
What was the total volume of replacement material (in cubic yards) for this site	106
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	11/07/2024
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS, Page 8

Action 417846

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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Santa Fe, NM 87505

CONDITIONS

Action 417846

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417846
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Reclamation Report is approved. A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	2/13/2025