



June 18, 2024

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

**Re: Closure Report
ConocoPhillips (Heritage COG Operating, LLC)
SRO State Com #018H Flowline Release
Unit Letter A, Section 17, Township 26 South, Range 28 East
Eddy County, New Mexico
Incident ID nAB1719137895
2RP-4288**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess a historical release that occurred from a flowline associated with the SRO State Com #018H (API #30-015-39999), located in the Public Land Survey System (PLSS) Unit Letter A, Section 17, Township 26 South, Range 28 East, Eddy County, New Mexico. The approximate release site coordinates are 32.049943°, -104.100937°, (Site), as shown on Figures 1 and 2. The Site is located on State Trust Lands managed by the New Mexico State Land Office (NMSLO).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on July 4, 2017. The release occurred due to a pin hole in the side of a check valve on the water transfer line. Approximately 30 barrels (bbls) of produced water and 0.5 bbls of oil were released, of which 5 bbls of produced water was recovered. The NMOCD approved the initial C-141 on July 10, 2017, and subsequently assigned the release the Remediation Permit (RP) 2RP-4288 and the Incident ID nAB1719137895. The initial C-141 form is included in Appendix A.

The SRO State Com #018H is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022. As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. A Delineation Workplan previously completed by COG for the release Site was included as a portion of the ACO.

The SRO State Com #018H (nAB1719137895/2RP-4288) footprint is adjacent to an additional release incident associated with the SRO State Com #018H (nAB1730649817/2RP-4468). A separate Release Characterization and Closure report was submitted for the associated release and approved by NMOCD on February 15, 2024. Solaris is currently the owner and operator at this facility. Rob Kirk, Vice President

Tetra Tech

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Closure Report
June 18, 2024

ConocoPhillips

& General Manager, HSE & Compliance for Aris Water Solutions, previously authorized COPC to complete remedial work at the facility.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on State Trust Lands. A review of the NMSLO Land Status Map was completed and the Site is located within active oil and gas lease V074440000, which is listed under the Allar Company. Based on guidance provided by the NMSLO, as the release footprint is located on an active oil and gas lease, and the footprint is wholly located within the boundaries of the active oil and gas lease, no Remediation Right of Entry (ROE) permit is required at the Site. In an abundance of caution, an ROE permit was procured and received on October 23, 2023. ROE was renewed during the remedial activities. A copy of the ROE permit is included in Appendix B.

CULTURAL PROPERTIES PROTECTION

Tetra Tech, on behalf of COPC, contracted SWCA Environmental Consultants (SWCA) to conduct an intensive pedestrian survey for the SRO State Com #018H Flowline Release covering 28.84 acres (11.67 ha), due to NMCRIS 139406, a previously qualifying survey, the survey area was reduced to a total of 0.05 acres (0.02 ha) on the SLO-managed land Eddy County, New Mexico.

SLO cultural resources preservation efforts requires that an archaeological survey be conducted to current standards in compliance with New Mexico Administrative Code (NMAC) 4.10.15 to ensure that cultural properties are not inadvertently excavated, harmed, or destroyed by any person. On June 15, 2023, SWCA surveyed a 200-foot buffer from the inadvertent release location footprint, located entirely on SLO-managed land.

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. 153228 is included in Appendix B, Regulatory Correspondence.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter radius (approximately 1/2 mile) of the site. According to the NMOSE reporting system, there are no water wells within 1/2 mile (800 meters) of the Site. There is one (1) well within 2.03 miles (3,282 meters) of the Site with a depth to groundwater of 120 feet (ft) bgs.

DTW DETERMINATION

As the available water level information was from a well further than 1/2 mile away from the Site, COPC elected to review adjacent release sites with approved reports for possibility of associated borings which could provide a means of determining depth to groundwater in the vicinity of the nAB1719137895 release area. On March 1, 2023, a licensed drilling subcontractor was contracted to drill a borehole to 55 ft bgs to determine depth to water (DTW) as part of the characterization associated with the Graham Cracker 16 State #003H lease pad. The DTW boring is located approximately 0.6 miles east of the SRO State Com #018H Flowline Release. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 ft bgs. The borehole was plugged with 3/8-inch bentonite chips. The borehole coordinates are 32.049763°, -104.090109°.

Closure Report
June 18, 2024

ConocoPhillips

Based on the proximity of the nearby DTW borehole, a request was submitted to the NMOCD on October 6, 2023, to ascertain if it would be acceptable to utilize this borehole to determine depth to groundwater at the Site. The NMOCD responded on October 10, 2023, and stated that the attached groundwater determination for the site was acceptable to the NMOCD for SRO State Com #018H. A copy of the correspondence with the NMOCD is included in Appendix B. The boring location is indicated on Figure 4. The revised site characterization data, along with the boring log, is 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, and 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 revised 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	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

2017 ASSESSMENT AND SAMPLING RESULTS

On August 7, 2017, COG personnel were onsite to conduct the initial site assessment. Two (2) trenches (T-1 and T-2) were installed using a trackhoe to a maximum depth of approximately 17 ft below ground surface (bgs). Four (4) soil samples (north, south, east and west) were collected to define the horizontal extent to a depth of approximately 1 ft bgs. Soil samples were sent to Xenco Laboratories and were analyzed by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0.

The initial assessment results are summarized in Table 1. Analytical results for T-1 and T-2 were above RRALs for chloride to a depth of 12 ft bgs at T-1 and 6 ft bgs at T-2. TPH analytical results exceeded RRALs at surface for T-1 and at 1 ft bgs for T-2, respectively. The initial assessment sampling locations are indicated on Figure 3.

INITIAL WORK PLAN (2017)

A Delineation Workplan dated September 19, 2017, describing the Site assessment and proposed remedial activities, was submitted via email to Mike Bratcher of the NMOCD on October 2, 2017. The Delineation Workplan proposed excavation of the area of trench T-1 to a depth of 4 ft bgs and placement of a 40-mil liner at the base of the excavation, and excavation of the area of trench T-2 to a depth of 6 ft bgs.

Closure Report
June 18, 2024

ConocoPhillips

The Initial Work Plan was approved by NMOCD on October 3, 2017, with the following comments:

- *“COG’s proposal for remediation of the above referenced release is approved. Please advise in the event proposed excavation depths are not achieved. Please advise once remedial activities have been scheduled.”*

A 90-day extension request to December 20, 2023, was approved in an email dated March 22, 2023. Figure 3 shows the initial release extent and the 2017 assessment locations as depicted in the approved Delineation Workplan. A copy of the Delineation Workplan is available on the NMOCD online incident files.

NMSLO ECO CORRESPONDENCE

The approved Work Plan dated September 19, 2017, describing the Site assessment and proposed remedial activities was submitted via email to Tami Knight of the State Land Office Environmental Compliance Office (ECO) on May 18, 2023. The Work Plan included the placement of a 40-mil liner at the base of the 4-foot excavation. The Work Plan was rejected by Tami Knight on June 6, 2023, with the following comments:

- *“ECO is not approving placement of plastic liner as a means of remediation on State Trust Land. Please submit a revised workplan that includes an alternative remediation method that does not include a plastic liner. Additionally, the revised workplan must include a confirmation sampling plan and a reclamation plan since the remediation work is occurring on a ROW and in a pasture.”*

On the basis of ECO not approving liners on State Trust lands, COPC elected to reassess the release footprint to determine current concentrations in soil.

2023 ASSESSMENT AND SAMPLING RESULTS

On behalf of COPC, Tetra Tech conducted a visual site inspection on May 30, 2023, to assess current Site conditions, document the observed impact, and photograph the area. Tetra Tech observed surface staining/impacts, however no obvious signs of staining and/or residual impact were observed at the adjacent release (nAB1730649817). Photographic documentation of current Site conditions during the 2023 site visit is included as Appendix D.

Additional soil sampling was conducted to assess the current soil contaminant concentrations within the reported release footprint. On December 18, 2023, Tetra Tech installed one (1) hand auger boring (23-South) and two (2) trenches (T-23-1 & T-23-2) using a mini-excavator. A total of nine (9) soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of chloride via Standard Method SM4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results associated with sample locations T-23-1 and T-23-2 mirror the chloride results from T-1 and T-2 from the previous investigation, with concentrations exceeding the reclamation requirements of 600 mg/kg in the upper 4 feet. All other analytical results were below the reclamation requirements and Site RRALs for all constituents. The additional assessment sampling locations are indicated on Figure 4. Analytical results from the October 2023 additional assessment sampling activities are summarized in Table 2.

WORK PLAN APPROVAL

A Revised Release Characterization and Remediation Work Plan (Revised Work Plan) dated February 5, 2024, was prepared based on the results of the 2023 release assessment activities and submitted to the NMOCD for approval. The Revised Work Plan was approved by NMOCD on February 15, 2024, with the following comments:

Closure Report
June 18, 2024

ConocoPhillips

- *“Plan approved with a Condition of Approval: If impacted soil is to remain in place, written permission from the pipeline owner to leave in place until P&A activities must be included in all subsequently reports.*
- *Submit a report via the OCD permitting portal by June 19, 2024.”*

The NMSLO approved the Revised Work Plan on February 16, 2024, via email. A copy of the NMSLO and OCD approval are included in Appendix B.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

Tetra Tech personnel mobilized to the Site to conduct remedial activities and confirmation sampling on April 23 through April 26, 2024. Based on the approved Revised Work Plan, Tetra Tech excavated the release extent to a maximum depth of 4 ft bgs to remove impacted soils, as presented in Figure 5. Heavy equipment (backhoe and track hoe) was utilized to excavate areas outside the immediate vicinity of pressurized lines. Areas in close proximity to pressurized lines or other production equipment were excavated using a hydro-vac or hand-dug to the maximum extent practicable. Per Solaris locator representatives, a 5-ft exclusion zone had to be preserved around the valve cans in order maintain the structural integrity of the associated valves. Work in this area was restricted to non-aggressive methods.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD was notified via the OCD portal on April 18, 2024. The NMSLO ECO was also notified of remedial activities on April 18, 2024. Documentation of associated regulatory correspondence is included in Appendix B.

On April 23, 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. Photographs from the excavated areas prior to backfill are provided in Appendix D.

All of the excavated material was transported offsite for proper disposal. Approximately 212 cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix E.

Per the conditions of the NMOCD approval of the Revised Work Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 400 square feet of excavated area. A total of three (3) floor sample locations and five (5) sidewall sample locations were used during the remedial activities.

Confirmation sidewall sample locations were labeled with “SW”-#, and confirmation floor sample locations were labeled with “FS”-#. Analytical results for all confirmation soil samples (floor and sidewall) were below the respective RRALs for chloride, BTEX, and TPH. The results of the April 2024 confirmation sampling events are summarized in Table 3. Laboratory analytical data is included in Appendix F. Excavated areas, depths and confirmation sample locations are shown in Figure 5.

RECLAMATION ACTIVITIES

In accordance with 19.15.29.13 NMAC, all areas disturbed by the release incident and remediation activities 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 SM4500Cl-B.

In accordance with 19.15.29.12 NMAC, the reclaimed area contains non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500Cl-B in the upper 4 ft. One (1) representative 5-point composite sample was collected from the backfill material used for the reclamation of the excavation. Soil backfill composite sampling results are

Closure Report
June 18, 2024

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summarized in Table 4. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. The backfilled areas in the pasture were seeded to aid in revegetation. Based on the soils of the site NMSLO Loamy Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by hand-held broadcaster and raked.

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. The NMSLO seed mixture details in corresponding pounds per live seed per acre are included in Appendix G.

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the remedial activities performed, and the confirmation sampling results received. The final C-141 forms are enclosed in Appendix A.

If you have any questions concerning the additional soil assessment or the proposed remediation activities for the Site, please call me at (512) 560-9064.

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



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

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Ms. Tami Knight, NMSLO ECO

Closure Report
June 18, 2024

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Site Assessment
- Figure 4 – Approximate Release Extent and Additional Site Assessment with DTW Location
- Figure 5 – Remediation Extent and Confirmation Sampling Locations

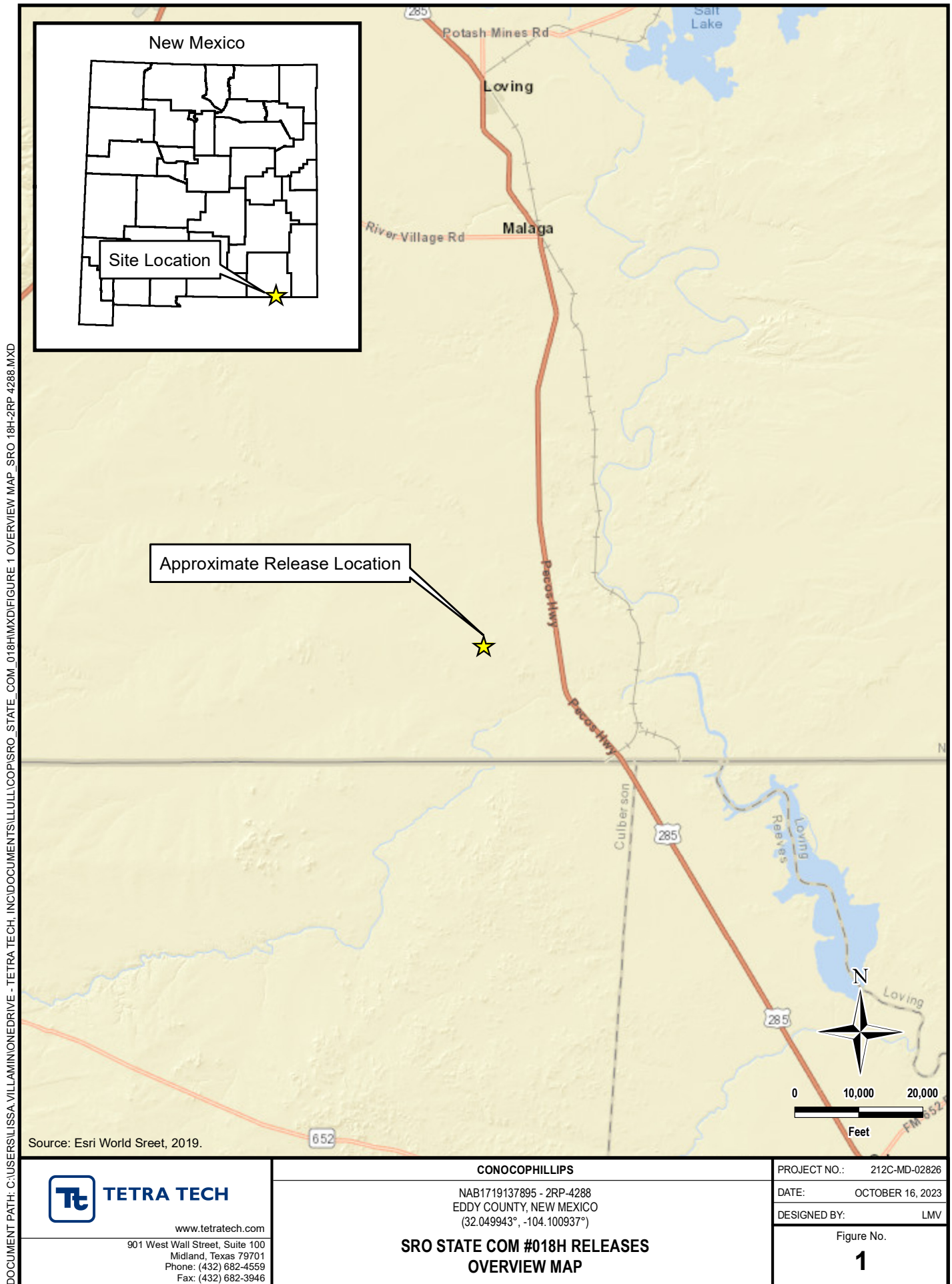
Tables:

- Table 1 – Summary of Analytical Results – 2018 Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Soil Assessment
- Table 3 - Summary of Analytical Results – 2024 Soil Remediation
- Table 4 – Summary of Analytical Results – 2024 Soil Backfill

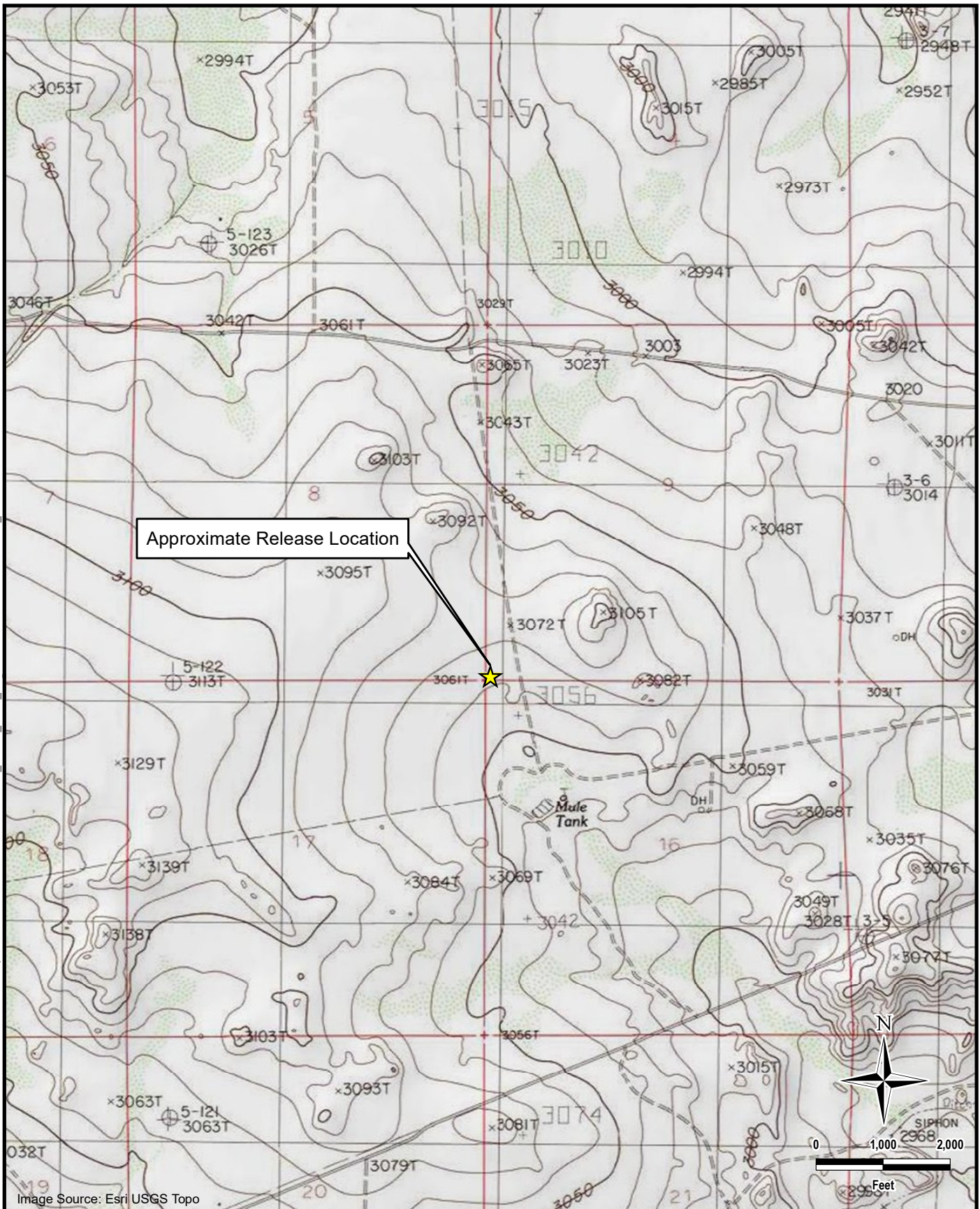
Appendices:

- Appendix A – C-141 Forms
- Appendix B – Regulatory Correspondence
- Appendix C – Site Characterization Data
- Appendix D – Photographic Documentation
- Appendix E – Waste Manifests
- Appendix F – Laboratory Analytical Data
- Appendix G - Seed Mixture Details

FIGURES



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CONOCOPHILLIPS

NAB1719137895 - 2RP-4288
EDDY COUNTY, NEW MEXICO
(32.049943°, -104.100937°)

**SRO STATE COM #018H RELEASES
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02826

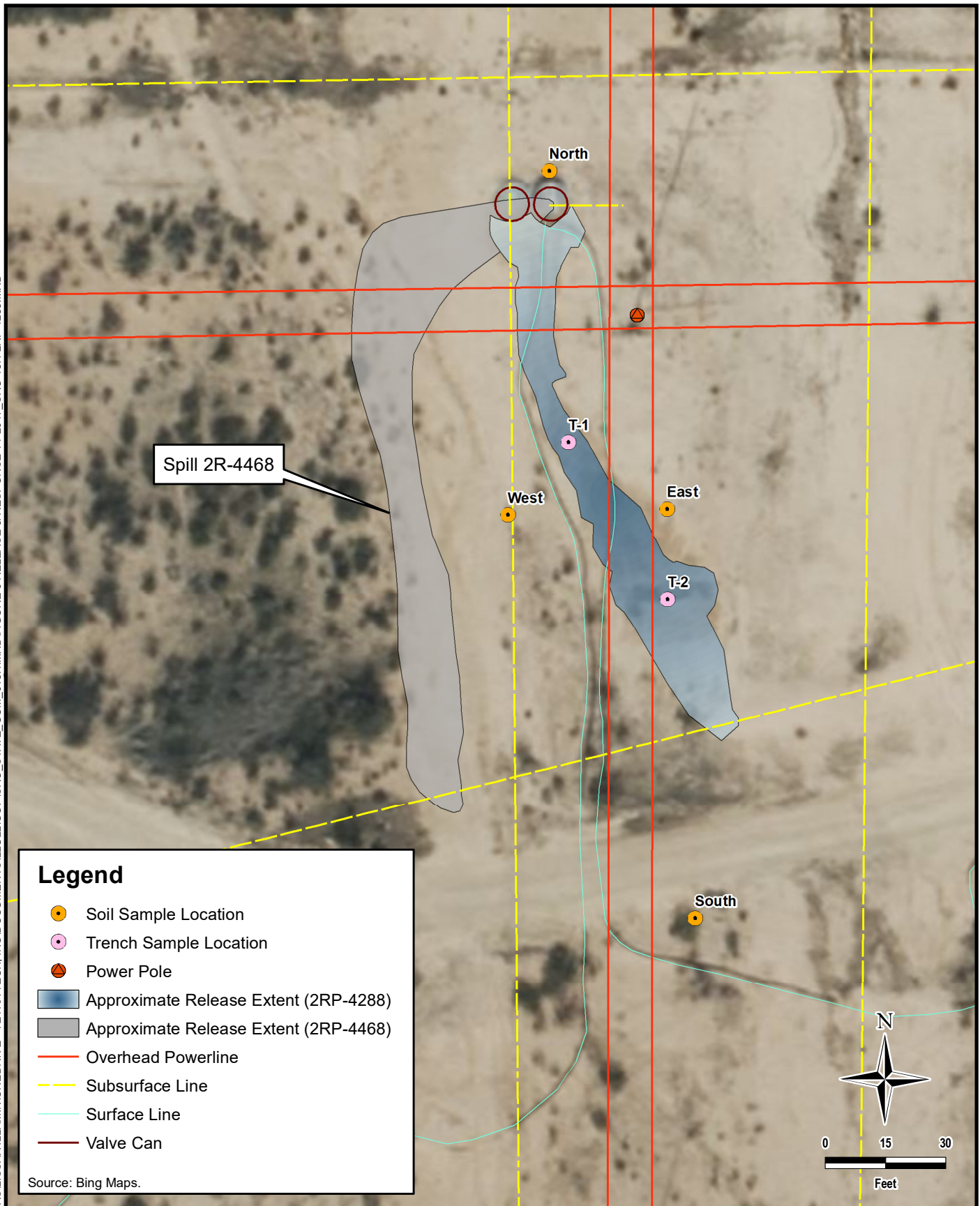
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DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INC\DOCUMENTS\ILLUICOPISRO_STATE_COM_018HMXD\FIGURE 3 RELEASE & RESPONSE TT 2017 - SRO 18H-2RP 4288.MXD

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CONOCOPHILLIPS

NAB1719137895 - 2RP-4288
EDDY COUNTY, NEW MEXICO
(32.049943°, -104.100937°)

**SRO STATE COM #018H RELEASES
APPROXIMATE RELEASE EXTENT AND INITIAL SITE ASSESSMENT**

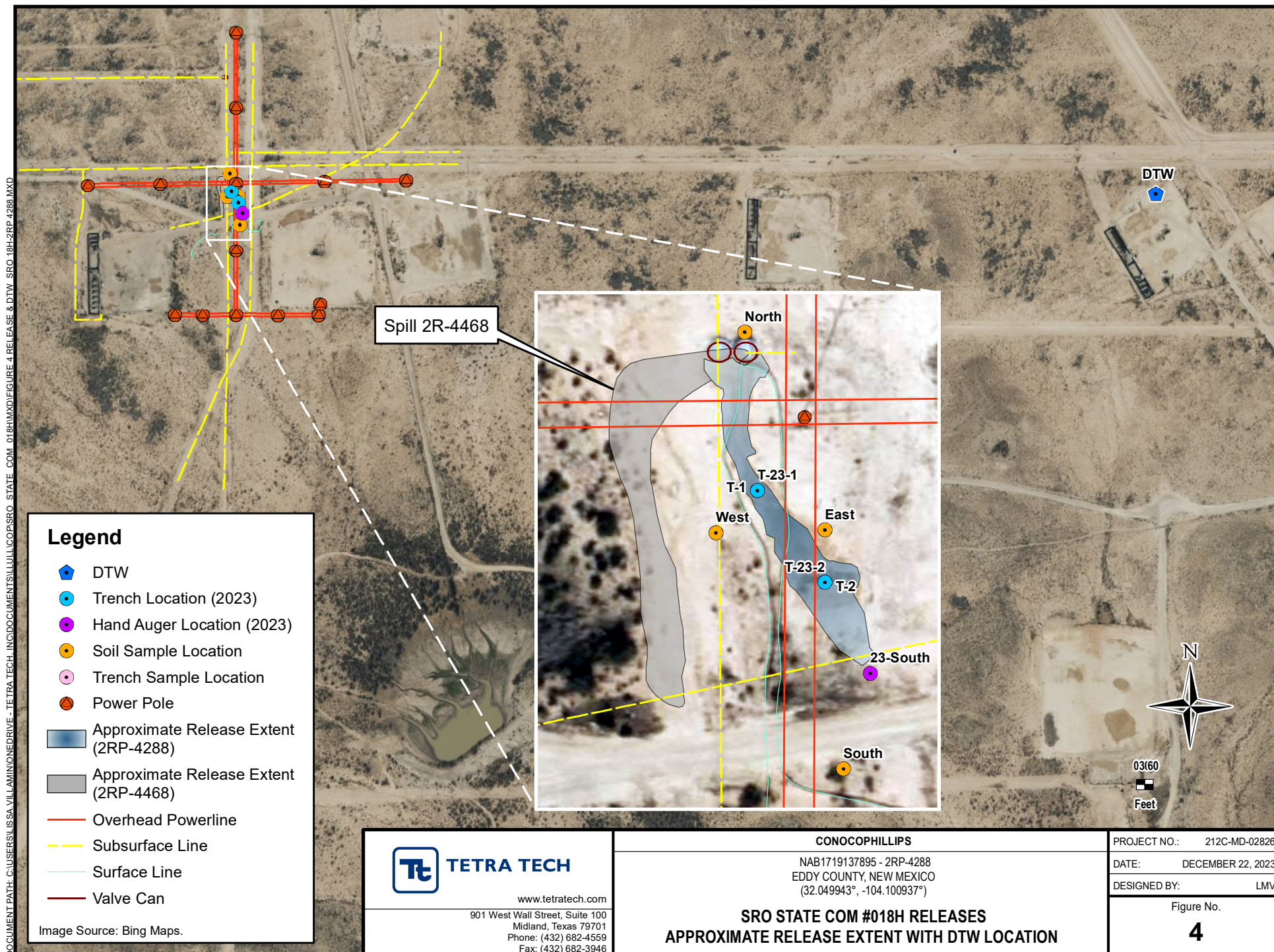
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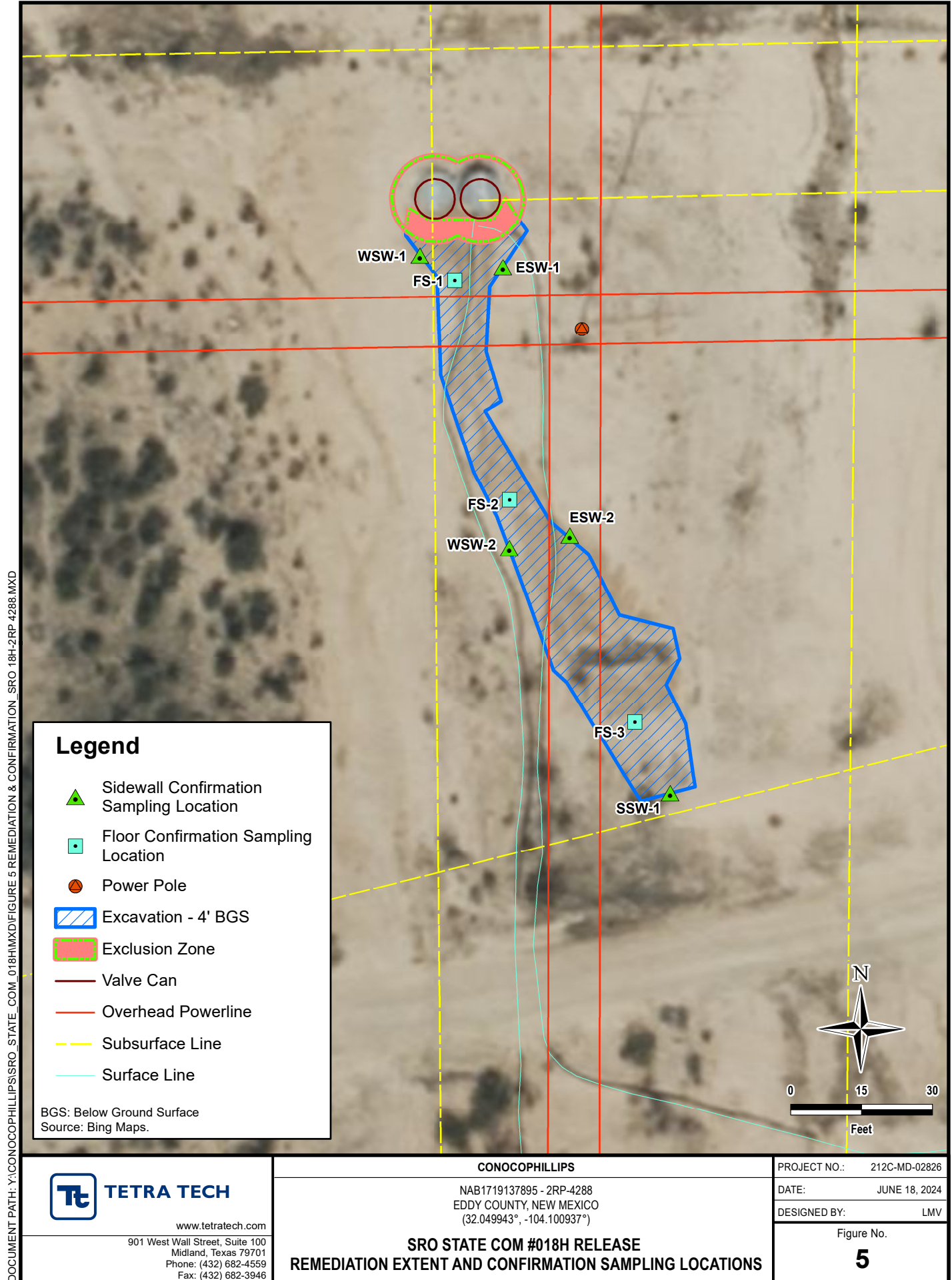
DATE: OCTOBER 16, 2023

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Figure No.

3





TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2018 SOIL ASSESSMENT - nAB1719137895/2RP-4288
CONOCOPHILLIPS
SRO STATE COM #018H
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²												TPH ³								
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH
		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	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
T1	8/7/2017	Surface	12,800		<0.00199	U	<0.00199	U	<0.00199	U	0.00703		0.00564		0.0127		0.0127		<15.0	U	1,250		474		1,720
		1	11,200		<0.00200	U	<0.00200	U	<0.00200	U	0.00415		0.00457		0.00872		0.00872		<15.0	U	<15.0	U	<15.0	U	<15.0
		2	10,600		<0.00200	U	<0.00200	U	0.00531		0.0391		0.0298		0.0689		0.0742		<15.0	U	62.5		<15.0	U	62.5
		3	6,850		<0.00200	U	<0.00200	U	<0.00200	U	<0.00399	U	<0.00200	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0
		4	6,310		<0.00198	U	<0.00198	U	<0.00198	U	<0.00396	U	<0.00198	U	<0.00198	U	<0.00198	U	<15.0	U	<15.0	U	<15.0	U	<15.0
		6	5,320		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		8	2,650		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		10	1,200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		12	1,250		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		14	285		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
17	210		<0.00201	U	<0.00201	U	<0.00201	U	<0.00402	U	<0.00201	U	<0.00201	U	<0.00201	U	<15.0	U	<15.0	U	<15.0	U	<15.0		
T2	8/7/2017	Surface	8,150		<0.00200	U	0.298		0.289		0.253		0.202		0.455		1.04		175		622		97.9		895
		1	8,450		<0.00199	U	0.0121		0.0415		0.235		0.159		0.394		0.448		42.0		227		<15.0	U	269
		2	9,740		<0.00200	U	<0.00200	U	<0.00200	U	0.0121		0.00565		0.0178		0.0178		<15.0	U	32.2		<15.0		32.2
		3	9,750		<0.00201	U	<0.00201	U	<0.00201	U	0.00403		0.00377		0.00780		0.00780		<15.0	U	<15.0	U	<15.0	U	<15.0
		4	4,370		<0.00202	U	<0.00202	U	<0.00202	U	<0.00404	U	0.00323		0.00323		0.00323		<14.9	U	<14.9	U	<14.9	U	<14.9
		6	1,420		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		8	470		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		10	349		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		12	159		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
		14	280		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		-
15-16	359		<0.00200	U	<0.00200	U	<0.00200	U	<0.00401	U	<0.00200	U	<0.00200	U	<0.00200	U	<15.0	U	<15.0	U	<15.0	U	<15.0		
North	8/7/2017	Surface	9.36		0.0167		0.00324		<0.00202	U	0.00707		0.00374		0.0108		0.0308		<14.9	U	<14.9	U	<14.9	U	<14.9
		1	27.0		0.0185		0.0298		0.00460		0.0107		0.00380		0.0145		0.0674		<15.0	U	<15.0	U	<15.0	U	<15.0
South	8/7/2017	Surface	<5.00	U	0.00409		<0.00200	U	<0.00200	U	<0.00399	U	0.00251		0.00251		0.00660		<15.0	U	<15.0	U	<15.0	U	<15.0
		1	17.0		0.0112		0.0210		0.00284		0.00736		0.00459		0.0120		0.0470		<15.0	U	<15.0	U	<15.0	U	<15.0
East	8/7/2017	Surface	<4.94	U	<0.00201	U	<0.00201	U	<0.00201	U	<0.00402	U	0.00254		0.00254		0.00254		<15.0	U	<15.0	U	<15.0	U	<15.0
		1	<4.97	U	0.00269		0.00558		<0.00199	U	<0.00398	U	<0.00199	U	<0.00199	U	0.00827		<15.0	U	<15.0	U	<15.0	U	<15.0
West	8/7/2017	Surface	<4.95	U	<0.00337	U	<0.00337	U	<0.00337	U	<0.00673		<0.00337	U	<0.00337	U	<0.00337	U	<15.0	U	<15.0	U	<15.0	U	<15.0
		1	<4.94	U	0.00864		0.0132		<0.00202	U	0.00450		0.00421		0.00871		0.0306		<15.0	U	<15.0	U	<15.0	U	<15.0

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil Range hydrocarbons

NS Sample not analyzed for parameter

1 EPA Method 300.0

2 EPA Method 8021B

3 Method SW8015 Mod

NA Sample not analyzed for constituent

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS: U Analyte was not detected.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT - nAB1719137895/2RP-4288
CONOCOPHILLIPS
SRO STATE COM #018H
EDDY 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	(GRO+DRO)	Total TPH
															C ₆ - C ₁₀	> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(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	mg/kg
		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	Q	mg/kg	mg/kg
		Criteria for Pasture / Off-Pad Soils 0-4' bgs:	600 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		--	100 mg/kg
		Criteria for Soils >4' bgs (GW 50-100 ft):	10,000 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		1000 mg/kg	2500 mg/kg
23-South	12/18/2023	0-1	<16.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
T-23-1	12/18/2023	0-1	11,200		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		17.2		<10.0	17.2
		2-3	7,280		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		3-4	3,600		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		4-5	3,680		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
T-23-2	12/18/2023	0-1	2760.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		2-3	1360.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		3-4	1390.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		4-5	608.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT - nAB1719137895/2RP-4288
CONOCOPHILLIPS
SRO STATE COM #018H
EDDY 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		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)
		C ₆ - C ₁₀		> C ₁₀ - C ₂₈											> C ₂₈ - C ₃₆							
		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	Q	mg/kg	Q	mg/kg	mg/kg
		Criteria for Pasture / Off-Pad Soils 0-4' bgs:	600 mg/kg		< 10 mg/kg		--		--		< 50 mg/kg		--		--		--		--		--	
Criteria for Soils >4' bgs (GW 50-100 ft):	10,000 mg/kg		< 10 mg/kg		--		--		< 50 mg/kg		--		--		--		--		1000 mg/kg		2500 mg/kg	
23-South	12/18/2023	0-1	<16.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
T-23-1	12/18/2023	0-1	11,200		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		17.2		<10.0		17.2	17.2
		2-3	7,280		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	3,600		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	3,680		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
T-23-2	12/18/2023	0-1	2760.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	1360.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	1390.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	608.0		<0.050		<0.050		<<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - nAB1719137895
CONOCOPHILLIPS
SRO STATE COM #018H
EDDY 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)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		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	Q	mg/kg	Q	mg/kg	
ESW-1	4/23/2024	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-2	4/23/2024	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1	4/23/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-1	4/23/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-2	4/23/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-1	4/23/2024	4	1,740		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-2	4/23/2024	4	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
FS-3	4/23/2024	4	1,780		<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

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL BACKFILL - PULLEY PIT
CONOCOPHILLIPS
SRO STATE COM #018H
EDDY 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)	
		C ₆ - C ₁₀												> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆					
		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	
BACKFILL - COMPOSITE	2/15/2024	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

- 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

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC OGRID # 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: SRO State Com #018H	Facility Type: Flowline

Surface Owner: State	Mineral Owner: State	API No. 30-015-39999
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LOCATION OF RELEASE

Unit Letter A	Section 17	Township 26S	Range 28E	Feet from the 330	North/South Line North	Feet from the 330	East/West Line East	County Eddy
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Latitude 32.049943 Longitude -104.100937

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 0.5 bbl. Oil & 30 bbl. PW	Volume Recovered: 5 bbl. Produced Water
Source of Release: Flowline	Date and Hour of Occurrence: July 4, 2017 11:00 am	Date and Hour of Discovery: July 4, 2017 11:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ms. Weaver - NOMCD / Ms. Groves - SLO	
By Whom? Aaron Lieb	Date and Hour: July 5, 2017 8:12 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The release was due to a pin hole in the side of a check valve on the water transfer line. The check valve was replaced.

Describe Area Affected and Cleanup Action Taken.*

The release occurred in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to 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.

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

Signature: <i>Rebecca Haskell</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist:	
Title: Senior HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: rhaskell@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 6, 2017 Phone: 432-683-7443		

Attach Additional Sheets If Necessary

Incident ID	nAB1719137895
District RP	2RP-4288
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?	>55 (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.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input checked="" type="checkbox"/> Field data<input checked="" type="checkbox"/> Data table of soil contaminant concentration data<input checked="" type="checkbox"/> Depth to water determination<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input checked="" type="checkbox"/> Boring or excavation logs<input checked="" type="checkbox"/> Photographs including date and GIS information<input checked="" type="checkbox"/> Topographic/Aerial maps<input checked="" type="checkbox"/> 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	nAB1719137895
District RP	2RP-4288
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: Ike Tavaréz Title: Program Manager, Remediation

Signature:  Date: 2/5/2024

email: ike.tavaréz@conocophillips.com Telephone: 432-685-2573

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1719137895
District RP	2RP-4288
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: Ike TavarézTitle: Program Manager, RemediationSignature: Date: 2/5/2024email: ike.tavaréz@conocophillips.comTelephone: 432-685-2573**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
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 311472

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 311472
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Plan approved with a Condition of Approval: If impacted soil is to remain in place, written permission from the pipeline owner to leave in place until P&A activities must be included in all subsequently reports.	2/15/2024
amaxwell	Submit a report via the OCD permitting portal by June 19, 2024.	2/15/2024

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: _____  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



Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

October 23, 2023

COG Operating, LLC
2208 West Main Street
Artesia, NM 88210

Attn: Monti Sanders

Re: Right-of-Entry Permit No.: **RE-6733/SRO State Com #18H**

Dear Applicant:

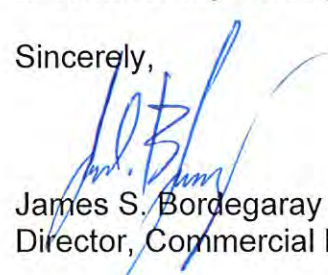
Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

Please see the attached conservation memorandum for conservation measures.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Amy Velazquez of my staff at (505) 827-5789.

Sincerely,


James S. Bordegaray
Director, Commercial Resources Division

JSB/alv



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

**RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 6733**

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

COG Operating LLC
2208 West Main Street
Artesia, NM 88210

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the SRO State Com #18H (Incident ID # 2RP-4468) and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in Eddy County, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
17	26S	28E	NW4NW4	Eddy	32.004957,-104.10095

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

\$ 50.00 Application Fee
\$ 500.00 Permit Fee
\$ 550.00 Total Fee

RE-6733

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **ConocoPhillips personnel and contractors.**
- L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated materials.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-6733

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Ry D. Owen
PERMITTEE SIGNATURE *CHC*
AK

DATE: 10/19/23

Ryan D. Owen

Attorney-in-fact, COG Operating LLC

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: Stephanie Garcia Richard
Stephanie Garcia Richard
Commissioner of Public Lands

DATE: 10/23/2023

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Registration

Lead Agency: New Mexico State Land Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 81946

Performing Agency Report No: 23-410

Report Recipient (Your Client): Tetra Tech

- 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: 0.05

Total Tribal Acreage: 0.00

Total Resources Visited: 0

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
			✓		<input type="checkbox"/>	

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Report Details

Lead Agency

Lead Agency: New Mexico State Land Office

Lead Agency Report No.

Report Number: _____

Title of Report

Title of Report: A Cultural Resources Survey of the SRO State Com #18H Release Project in Eddy County, New Mexico

Authors: Paisley DeFreese

Type of Report

Publication Type: Report, Monograph, or Book Negative

Description of Undertaking (what does the project entail?)

Description: Tetra Tech contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of the SRO State Com #18H Release project in Eddy County, New Mexico. The proposed project consists of clean up efforts for the release including excavation of affected soil and back fill with clean soil and is approximately 19.58 kilometers (12.16 miles) southwest of Malaga, New Mexico on lands managed by the New Mexico State Land Office (SLO). The SLO will serve as the lead agency.

Tetra Tech is proposing to excavate and back fill two inadvertent releases surrounding two valve cans at the spill location. The proposed survey area is based on a 200 ft buffer around the provided center point (32.049752°, -104.100954). The project is completely on SLO land. Tetra Tech sent a site monitor to survey with SWCA as part of their standard safety protocol.

Dates of Investigation

From: 06/15/2023 To: 06/15/2023

Report Date

Report Date: 06/22/2023

Performing Agency/Consultant

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Name: SWCA Environmental Consultants
Principal Investigator: Alissa K. Healy
Field Supervisor: Thea Stehlik-Barry
Field Personnel Names: N/A
Historian/Other: N/A

Report Details

Performing Agency Report Number

Report Number: 23-410

Client/Customer (project proponent)

Name: Tetra Tech
Contact: Steve Jester
Address: 1500 City West, #1000
Houston, TX 77042
Phone: (713) 806-8871

Client/Customer Project Number

Project Number: 81946

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Land Ownership:

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
NM SLO		0.05	0.05

Total Survey Acreage: 0.05

Total Tribal Acreage: 0.00

Record Search(es)

Date of HPD/ARMS File Review: 7-June-2023

Date of Other Agency File Review: 7-June-2023

Survey Data

Source Graphics: NAD 83
✓ USGS 7.5' (1:24,000) topo map ☐ Other Topo Map Scale:
✓ GPS Unit
☐ 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
Red Bluff	32104-A1

County(ies)

County	FIPS
Eddy	

Legal Description

Unplatted	Township (N/S)	Range (E/W)	Section
	T26S	R28E	8
	T26S	R28E	17

Projected Legal Description

Nearest City or Town: Malaga

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

GIS

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Methodology

Survey Field Methods

Intensity: 100% coverage

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

Other Survey Units

Scope: Non-Selective

Coverage Method: ☒ Systematic Pedestrian Coverage **Other Method:** _____

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

Fieldwork Dates: **From:** 06/15/2023 **To:** 06/15/2023

Survey Person Hours: 0.5 **Recording Person Hours:** 0

Additional Narrative: A Tetra Tech monitor was present during SWCA's cultural resources survey. NMCRIS 139403 (11/4/17) is a previously qualifying survey used to reduce the survey area.

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

Environmental Setting:

The project area falls within the Chihuahuan Basins and Playas (24a) ecoregion. This ecoregion includes alluvial fans, internally drained basins, and river valleys mostly below 4,500 feet in elevation (Griffith et al. 2006). The elevation of the project area is 934.03 m (3,064 feet) above mean sea level. This ecoregion is composed of desert grasses and shrub land in erosional settings. This project is within the shrub land setting. Typical vegetation includes creosote bush, tarbush, yuccas, sandsage, viscid acacia, tasajillo, lechuguilla, mesquite, and ceniza. (Griffith et al. 2006). Wildlife in the area includes mule deer, prairie dog, gopher, fox, coyote, skunk, black-tailed jackrabbit, desert cottontail, scaled quail, burrowing owl, mourning dove, wrens, various hawks, bull snake, prairie rattlesnake, plain hognose snake, western hooknose snake and numerous lizards (Biota Information System of New Mexico 2023; Brown 1994). Important animal species prehistorically include deer, jackrabbit, and cottontail.

Geology underlying the project area comprises Holocene to middle Pleistocene eolian deposits ([Qe] [U.S. Geological Survey 2023]). One soil is present within the project area: Reagan-Upton association, 0 to 9 percent slopes, are well drained, with a low runoff class (Natural Resources Conservation Service 2023).

Weather data for the survey area was compiled using the Carlsbad Caverns, New Mexico (291480), climate station data (period of record February 1, 1930, to June 6, 2016). Rainfall in the survey area can occur year-round but is most abundant from May through October. During that time period, rainfall totals 30.1 cm (11.9 inches), with an average of 5.0 cm (1.98 inches) per month for those months; September has the heaviest average precipitation. Snowfall is heaviest during December at 5.6 cm (2.2 inches) and can fall between October and March. Temperatures are coldest in December and January at 0.8

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

degree Celsius (33.6 degrees Fahrenheit) and warmest in June at 32.8 degrees Celsius (91.1 degrees Fahrenheit) (Western Regional Climate Center 2023).

Biota Information System of New Mexico

2023 Database Query for Eddy County. Available at: <http://www.bison-m.org/>. Accessed June 2023.

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 1:1,100,000. U.S. Geological Survey, Reston, Virginia.

Natural Resources Conservation Service

2023 Web Soil Survey of Eddy County, New Mexico. Available at: <http://websoilsurvey.nrcs.usda.gov/app/>. Accessed June 2023.

Western Regional Climate Center

2023 Climate Summary for Carlsbad Caverns Climate Station (291480). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm1480>. Accessed June 2023

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Methodology

Percent Ground Visibility

Ground Visibility:76-99 %**Condition of Survey Area:**

The survey area had minimal disturbances from wind and water processes, modern trash on the south end, no significant animal burrows or evidence of cattle grazing. An overhead transmission line is present, however, there are no poles within survey area. The surrounding area is heavily disturbed with access roads, buried pipelines, surface flow lines, well pads, and transmission lines in close proximity.

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 & un0relocated sites (first 2 pages minimum)
- ☐ List and Description of Isolates, if applicable
- ☐ List and Description of Collections, if applicable

Other Attachments

- ✓ Photographs and Log
- ☐ Other attachments **Describe:** _____

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

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: 0

Management Summary

SWCA surveyed a 60.96-m (200-feet) buffer around the proposed project center point for a total survey area of 28.84 acres (11.67 hectares). NMCRIS 139403 is a previously qualifying survey used to reduce the survey area to a total of 0.05 acres (0.02 hectares). No archaeological sites or historic cultural properties (buildings, structures, or objects) or isolated occurrences were observed. This is likely due to the small survey area in addition to the previous surveys around the project also finding no cultural materials.

Summary:

SLO cultural resources preservation efforts requires that an archaeological survey be conducted to current standards for the APE pursuant to and in compliance with New Mexico Administrative Code (NMAC) 4.10.15 to ensure that cultural properties are not inadvertently excavated, harmed, or destroyed by any person. SWCA recommends that the proposed project will have no effect on any cultural resources listed or eligible for listing in the New Mexico State Register of Cultural Properties or the National Register of Historic Places. However, if buried cultural deposits are discovered during project construction, work should cease immediately, and the New Mexico SLO and State Historic Preservation Officer should be contacted

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Attachments

Documents:

Attachment Type	Description	Name	File Type	Size	Upload Date	Upload By
Report/Manuscript	NMCRIS_153228 NIAF	NMCRIS_153228	PDF Document	6,087KB	22-June-2023	Paisley DeFreese

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

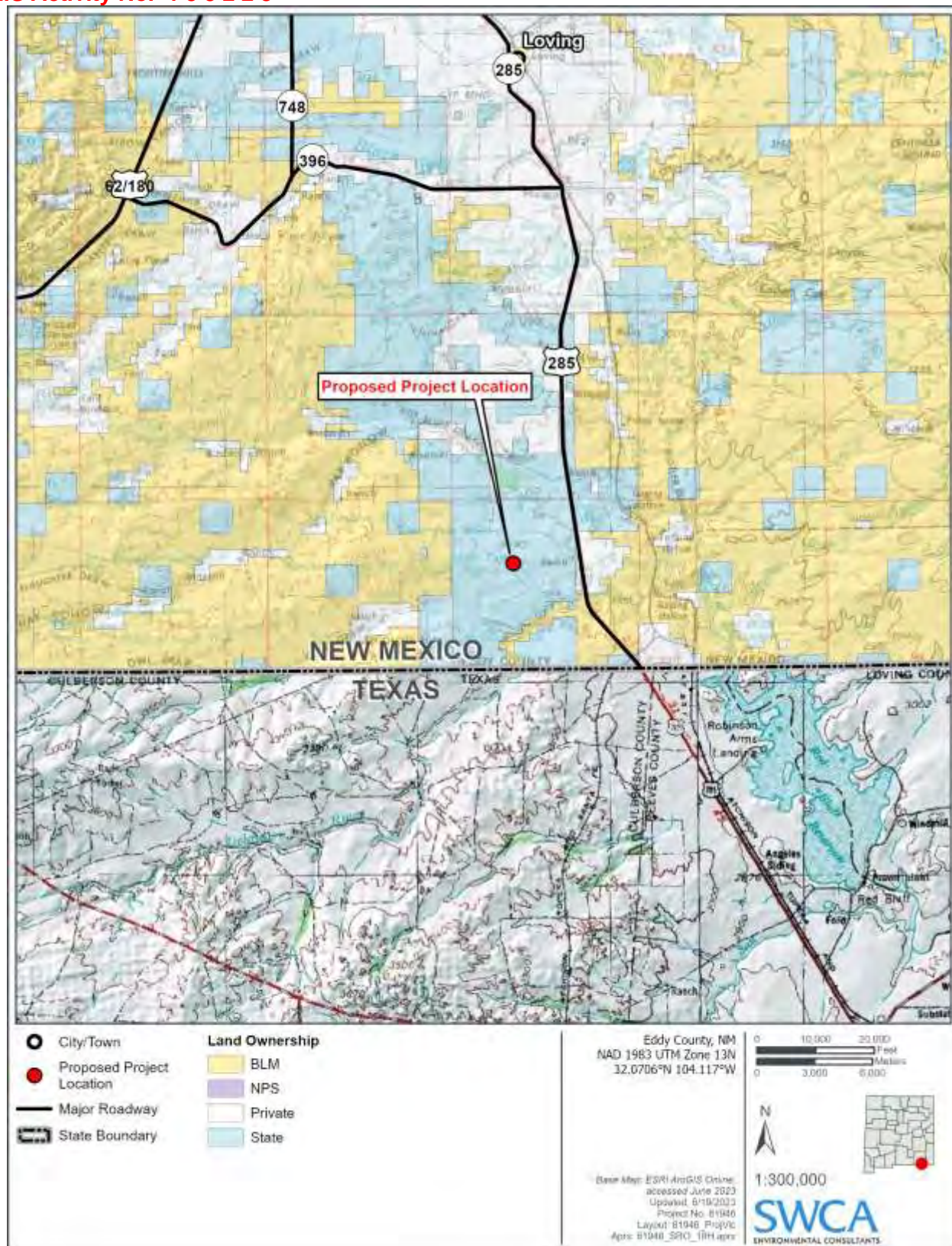


Figure 1. Project vicinity map.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

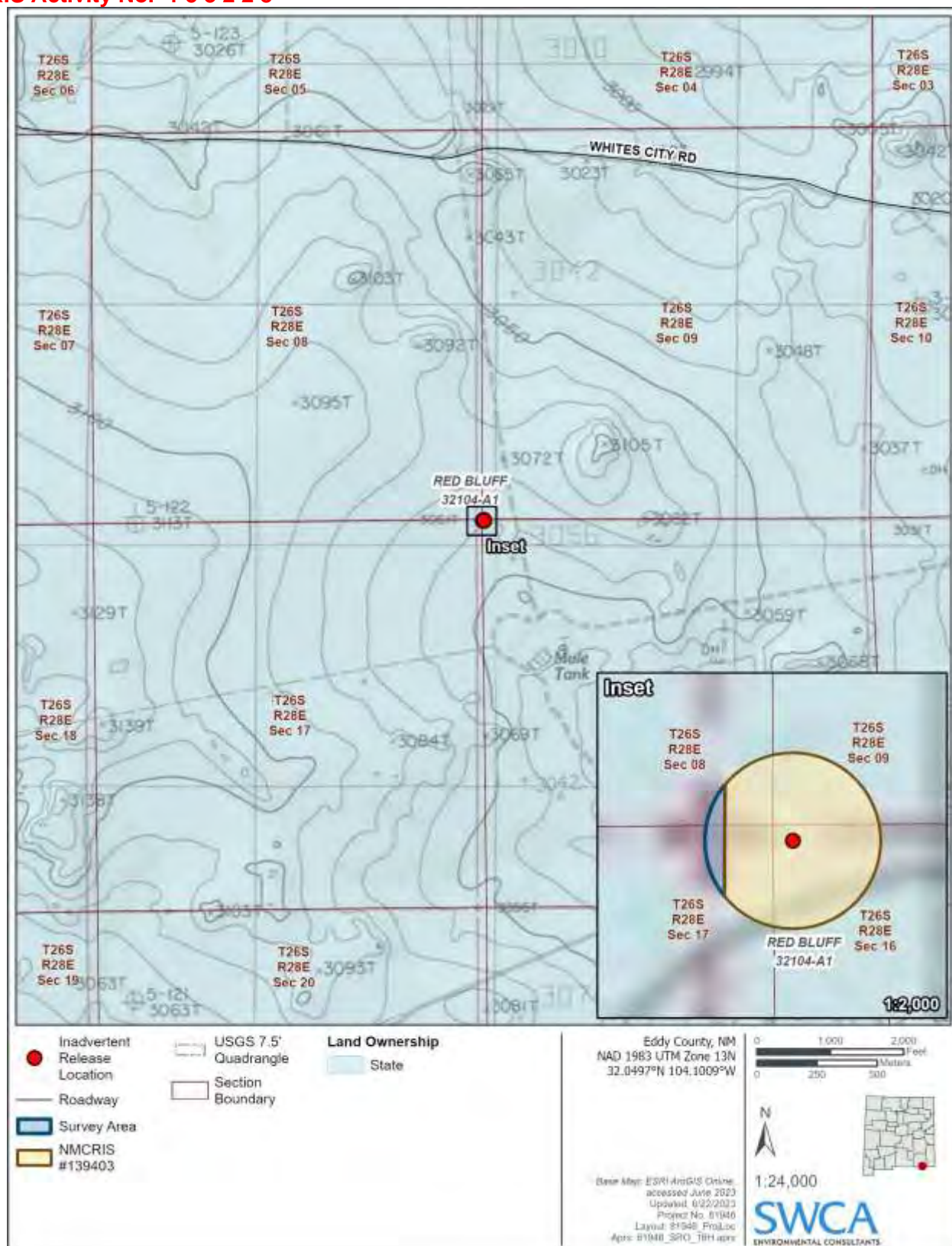


Figure 2. Project location map.

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8



Figure 3. Project overview, facing north (Frame -0716).



Figure 4. Project overview, facing south (Frame -1909).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8



Figure 5. Project overview, facing east (Frame -9561).



Figure 6. Project overview, facing west (Frame -9638).

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity No. 1 5 3 2 2 8

Table 1. Previously Known Cultural Resources within 500 m (0.31 mile) of the Project Area

*Redacted

Table 2. Previously Completed Cultural Resource Surveys within 500 m (0.31 mile) of the Project Area

NMCRIS No.	Performing Agency	Date	Acres	Resources Recorded
121605	Boone Arch Svcs of NM	7/23/2011	144.87	2
132233	Statistical Research, Inc.	7/8/2014	9528.07	79
137894	Boone Archaeological Consultants, LLC.	4/13/2017	41.23	0
139403	Lone Mountain Archaeological Services	11/4/2017	487.19	10

*Redacted

Figure 7. ARMS screenshot with the survey area shown with a blue polygon and previous surveys displayed with orange and brown polygons.

Chavira, Lisbeth

From: OCDOnline@state.nm.us
Sent: Thursday, February 15, 2024 8:15 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 311472

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1719137895, with the following conditions:

- **Plan approved with a Condition of Approval: If impacted soil is to remain in place, written permission from the pipeline owner to leave in place until P&A activities must be included in all subsequently reports.**
- **Submit a report via the OCD permitting portal by June 19, 2024.**

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

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

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

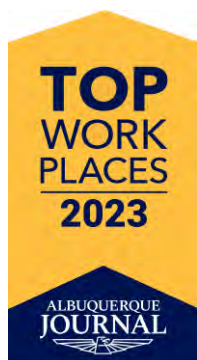
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Chavira, Lisbeth

From: Knight, Tami C. <tknight@slo.state.nm.us>
Sent: Friday, February 16, 2024 4:07 PM
To: Llull, Christian
Cc: Carroll, Ryan; Poole, Nicholas; Barnes, Will; Elliott, April L.; Griffin, Becky R.; David, Deon W.
Subject: RE: (Revised Remediation Work Plan) SRO State Com #018H FL Release (nAB1719137895) 7-4-2017

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

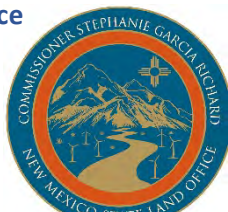
Documentation of proposed remediation actions for the subject release incident was received from your office on February 15, 2023. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan. Please submit the remediation closure report to eco@slo.state.nm.us.

**Environmental Compliance Office**

Surface Resources Division

eco@slo.state.nm.usnmstatelands.org

.....



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From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, February 15, 2024 6:28 PM
To: SLO Spills <spills@slo.state.nm.us>
Cc: Carroll, Ryan <RYAN.CARROLL@tetrattech.com>; Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>; Knight, Tami C. <tknight@slo.state.nm.us>
Subject: [EXTERNAL] (Revised Remediation Work Plan) SRO State Com #018H FL Release (nAB1719137895) 7-4-2017

Tami

Attached for your review is the Revised Release Characterization and Remediation Work Plan for the SRO State Com #018H (nAB1719137895/2RP-4288).

This revised WP has been approved by NMOCD, see attached correspondence.

The data indicates that a liner is no longer required.

**SRO State Com 018H Release
 ConocoPhillips (Heritage COG)
 Eddy County, New Mexico**

DOR 7/4/2017

Incident ID nAB1719137895

Approximate Release Point 32.049943°, -104.100937°

Landowner: NMSLO

PROJECT BACKGROUND

- The SRO State Com #018H (2RP-4468/nAB1730649817) is included in an Agreed Compliance Order ("ACO")
- The SRO State Com #018H (nAB1719137895) footprint is adjacent to an additional release incident associated with the SRO State Com #018H (nAB1730649817).
 - A separate Release Characterization and Closure Report will be submitted for the associated release.
- Operator is COP / Solaris Tinhorn.
- 30 bbls of produced water and 0.5 bbls of oil released, of which 5 bbls produced water were recovered.
 - Release caused by a pinhole in the side of a check valve on a water transfer line.
 - The release impacted approximately 1,925 square feet of pasture land.

ASSESSMENT AND INITIAL WP

- In August 2017, COG installed two trenches to assess the release.
- Based on the soil sample results, COG proposed to remove the majority of elevated chloride impact from the area.
 - The area of trench T-1 will be excavated to approximately 4' bgs and capped with a 40-mil liner.
 - The area of trench T-2 will be excavated to approximately 6' bgs.
- A Work Plan dated September 19, 2017, describing the Site assessment and proposed remedial activities was submitted via email to Mike Bratcher on October 2, 2017.
- The Work Plan was approved by OCD on October 3, 2017, with the following comments:
 - *COG's proposal for remediation of the above referenced release is approved. Please advise in the event proposed excavation depths are not achieved. Please advise once remedial activities have been scheduled.*
- A 90-day extension request to December 20, 2023, was approved in an email dated March 22, 2023.
- The approved Work Plan was submitted to SLO ECO on May 18, 2023.
- The Work Plan was rejected by Tami Knight on June 6, 2023 with the following comments:
 - *ECO is not approving placement of plastic liner as a means of remediation on State Trust Land. Please submit a revised workplan that includes an alternative remediation method that does not include a plastic liner. Additionally, the revised workplan must include a confirmation sampling plan and a reclamation plan since the remediation work is occurring on a ROW and in a pasture.*
- On June 15, 2023, SWCA personnel conducted a NMCRIS investigation (Cultural Survey).
 - No archaeological sites, historic properties, or isolated occurrences were observed during the investigation.
- Based on the proximity of a DTW completed as part of the Graham Cracker 16 State #003H investigation, a request was submitted to the NMOCD on October 6, 2023, to ascertain if it would be acceptable to utilize this borehole to determine depth to groundwater at the Site.
 - The NMOCD responded on October 10, 2023, and stated that groundwater determination for the site was acceptable.

ADDITIONAL ASSESSMENT AND REVISED WP

- Based on the comments provided by the NMOCD in the approved Work Plan and the findings of the visual inspection; additional soil sampling was conducted to complete horizontal delineation and assess the current soil contaminant concentrations within the reported release footprint.
 - On October 24, 2023, Tetra Tech installed one (1) hand auger borings (23-South) and two (2) trenches (T-23-1 & T-23-2).
 - A total of nine (9) soil samples were submitted to Cardinal Laboratories.
 - Analytical results associated with sample locations T-23-1 and T-23-2 mirror the chloride results from T-1 and T-2 from the previous investigation, with concentrations exceeding the reclamation requirements of 600 mg/kg in the upper 4 feet.

- All other analytical results were below the reclamation requirements and Site RRALs for all constituents.
- Based on the comments provided with the ECO rejected Work Plan, a Revised Site Characterization and Remediation Work Plan was prepared to exclude a liner.
 - Impacted soils will be excavated to a maximum depth of 4 feet bgs.
 - The estimated volume of material to be remediated is approximately 290 CY.
 - The proposed excavation extents encompass a surface area of approximately 1,955 square feet.
- 3 confirmation floor sample and 5 confirmation sidewall samples are proposed for verification of remedial activities.
- A liner is no longer required.
- The backfilled areas will be seeded with NMSLO Loamy Sites Seed Mixture.
- ConocoPhillips proposes to begin remedial activities at the Site within 90 days of NMOCD plan approval.

19.15.29.13 NMAC will be met, and reclamation details are provided.

Please let me know at your earliest convenience if we are cleared to proceed.

If you have any questions, do not hesitate to reach out.

Christian

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

Tetra Tech | *Leading with Science*® | OGA
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

QUESTIONS

Action 335155

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335155
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1719137895
Incident Name	NAB1719137895 SRO STATE COM #018H FL @ 30-015-39999
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-39999] SRO STATE COM #018H

Location of Release Source	
Site Name	SRO STATE COM #018H FL
Date Release Discovered	07/04/2017
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,955
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Contact Lisbeth Chavira at: 512-596-8201
Please provide any information necessary for navigation to sampling site	GPS Location: 32.049943°, -104.100937°

District I
1625 N. French Dr., Hobbs, NM 88240
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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

CONDITIONS

Action 335155

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335155
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cilull	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.	4/18/2024



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 6733 1st Re-issue

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the “Commissioner”) and

COG Operating LLC
2208 West Main Street
Artesia, NM 88210

(“Permittee”). The parties agree as follows:

1. RIGHT OF ENTRY (“ROE”)

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the “Premises”), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the **SRO State Com #18H (Incident ID # 2RP-4468)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Eddy County**, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
17	26S	28E	NW4NW4	Eddy	32.004957,-104.10095

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on April 20, 2024 and expiring on October 17, 2024.

3. FEES

\$ 50.00 Application Fee
\$ 500.00 Permit Fee
\$ 550.00 Total Fee

RE-6733 1st Re-issue

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **ConocoPhillips personnel and contractors.**
- L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated materials.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-6733 1st Re-issue

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Ake Tavaraz
PERMITTEE SIGNATURE

DATE: _____

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: _____

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: _____

Chavira, Lisbeth

From: Chavira, Lisbeth
Sent: Thursday, April 18, 2024 4:26 PM
To: eco@slo.state.nm.us
Cc: Knight, Tami C.; Llull, Christian; Poole, Nicholas
Subject: SRO State Com 018H Release (nAB1719137895)- Notice of Confirmation Sampling

Good afternoon,

This email is regarding the SRO State Com 018H Release (**nAB1719137895**).

In accordance with NMSLO-SH 491 MM 64 (NMED56789)-06-01-2022, 2-day sampling notification is being provided for the following site.

SRO State Com 018H Release
ConocoPhillips (Heritage COG Operating LLC)
Eddy County, New Mexico
DOR: 7/4/2017
Incident ID nAB1719137895
GPS Location: 32.049943°, -104.100937°
Landowner: NMSLO

Remediation activities are beginning at the site Tuesday, April 23, 2024.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site Wednesday, April 24 through Friday, April 26, 2024.

Thank you,

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

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.



Please consider the environment before printing. [Read more](#)



APPENDIX C

Site Characterization Data



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 02160 S7	CUB	ED		3	3	1	22	26S	28E	586638	3543998*	2923	300	120	180
C 02479	CUB	ED			4	4	10	26S	28E	587909	3546534*	3046	200		
C 02480	CUB	ED			4	4	10	26S	28E	587909	3546534*	3046	150		
C 02478	CUB	ED			2	1	05	26S	28E	583848	3549325*	3167	100		
C 04022 POD1	CUB	ED		4	4	2	15	26S	28E	588082	3545647	3282	220	175	45
C 02160 S5	CUB	ED		1	1	1	14	26S	28E	588225	3546237*	3356	300	120	180
C 02160 S6	CUB	ED		3	3	1	14	26S	28E	588232	3545635*	3432	300	120	180
C 02481	CUB	ED			1	1	14	26S	28E	588326	3546138*	3461	200		

Average Depth to Water: **133 feet**

Minimum Depth: **120 feet**

Maximum Depth: **175 feet**

Record Count: 8

UTMNA83 Radius Search (in meters):

Easting (X): 584869.88

Northing (Y): 3546326.7

Radius: 3500

*UTM location was derived from PLSS - see Help

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

10/12/23 1:08 PM

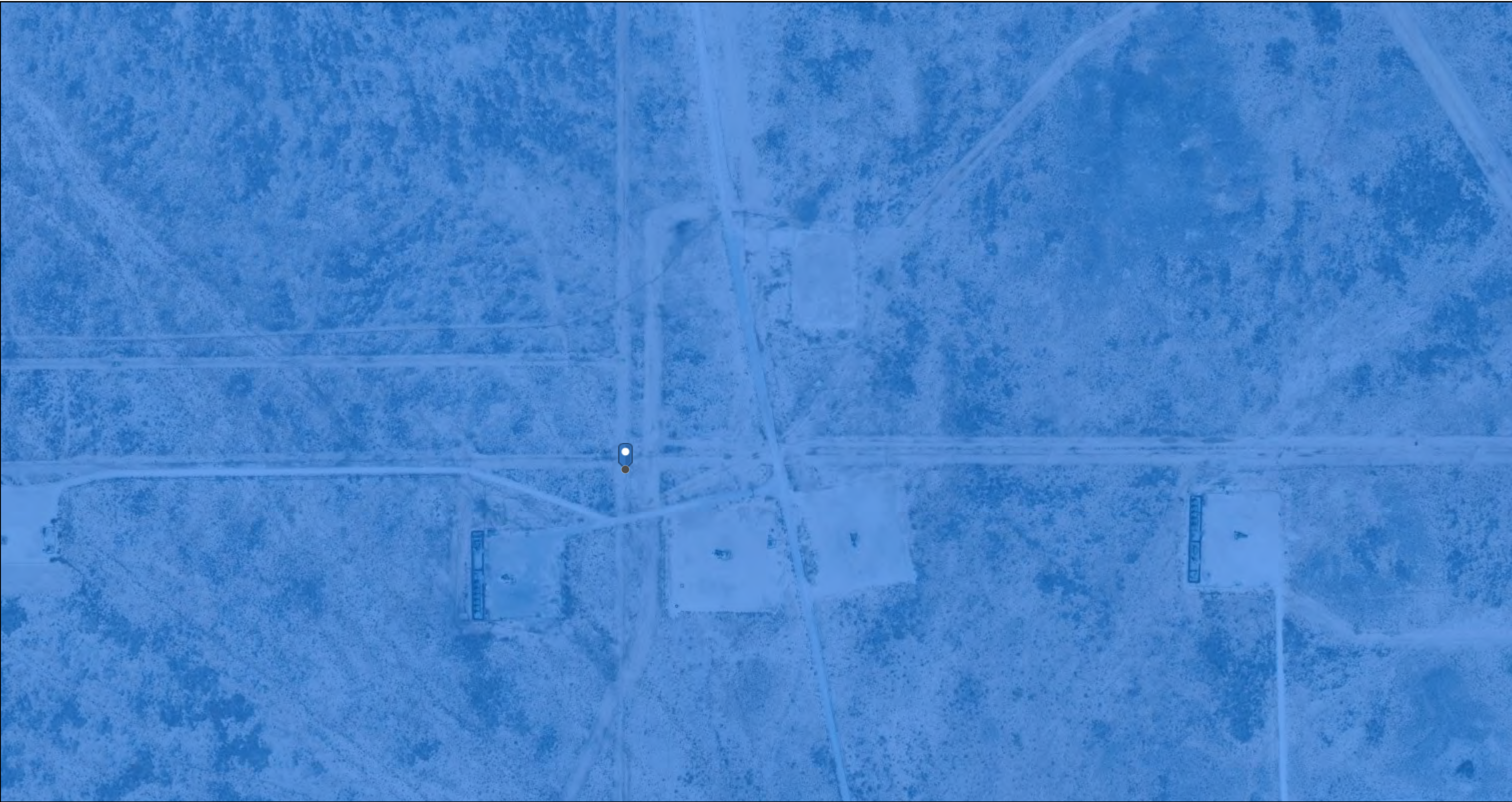
Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

212C-MD-02989		TETRA TECH										LOG OF BORING DTW															Page 1 of 1		
Project Name: Graham Cracker 16 State #002H																													
Borehole Location: GPS Coordinate: 32.049763°, -104.090109°										Surface Elevation: 3058'																			
Borehole Number: DTW										Borehole Diameter (in.):					Date Started: 3/1/2023					Date Finished: 3/1/2023									
WATER LEVEL OBSERVATIONS While Drilling <input checked="" type="checkbox"/> <u>DRY</u> 24 Hours After Completion of Drilling <input checked="" type="checkbox"/> <u>DRY</u> Remarks:																													
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		MATERIAL DESCRIPTION		DEPTH (ft)		WELL DIAGRAM	
5																								-SC- CLAYEY SAND: Dark brown, loose, dry, fine grained, partially weakly cemented, with trace Caliche		2			
10																								-SM- SAND: Light brown, loose, dry, fine grained, with gravel-sized Caliche -- Transitions to with partially weakly cemented Sand pockets		9			
15																								-SC- SAND: Light brown to brown, medium dense, dry, fine to medium grained, with loose coarse Sand pockets					
20																								-SM- SAND: Light brown to brown, loose, dry, fine grained, with partially cemented Clayey Sand pockets					
25																								-ML- SAND: Light brown, medium dense, dry, very fine to fine grained, with Clayey Sand pockets					
30																								-SM- SILTY SAND: Light brown, dense, dry, very fine to fine grained, partially cemented, with occasional Clayey Sand seams					
35																								Bottom of borehole at 55.0 feet.		34			
40																								Bottom of borehole at 55.0 feet.		44			
45																								Bottom of borehole at 55.0 feet.		49			
50																								Bottom of borehole at 55.0 feet.		55			
55																								Bottom of borehole at 55.0 feet.					
																								Bottom of borehole at 55.0 feet.					

Sampler Types:		<input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Shelby <input type="checkbox"/> Vane Shear <input type="checkbox"/> Bulk Sample <input type="checkbox"/> California <input type="checkbox"/> Grab Sample <input type="checkbox"/> Test Pit				Operation Types:				<input type="checkbox"/> Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Drive Casing				Notes: Surface elevation is an estimated value from Google Earth data.															
		<input type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Mud Rotary				<input type="checkbox"/>																							
Logger: Lee Scarborough										Drilling Equipment: Air Rotary										Driller: Scarborough Drilling									

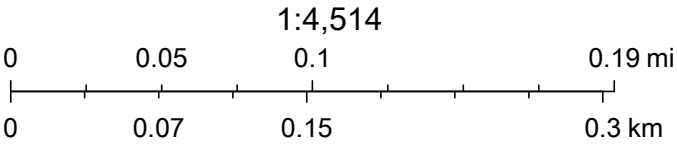
OCD Karst Potential



10/12/2023, 2:00:16 PM

Karst Occurrence Potential

Medium



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

National Flood Hazard Layer FIRMette



104°6'22"W 32°3'15"N



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

1:6,000

104°5'45"W 32°2'45"N

Released to Imaging: 7/3/2024 1:30:05 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



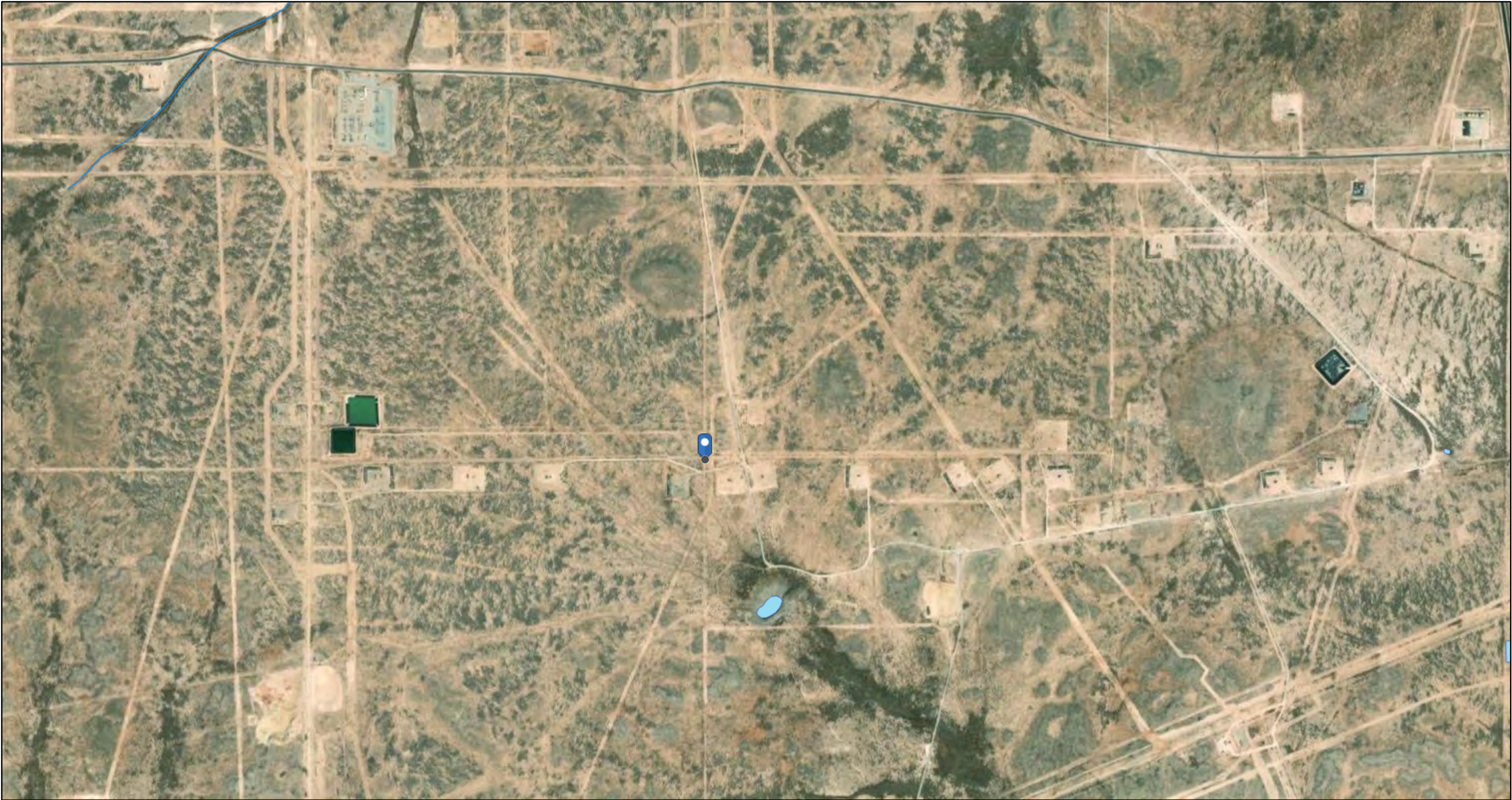
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 **12/8/2023 at 1:27 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.

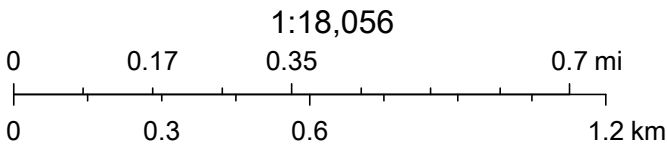
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

OCD Waterbodies Map



10/12/2023, 2:04:38 PM

- OSW Water Bodys
- OSE Streams




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

OCD Surface Ownership Map



12/8/2023, 12:24:38 PM


Mineral Ownership

 N-No minerals are owned by the U.S.

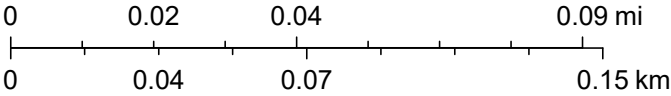
 PLSS Second Division

 PLSS First Division

Land Ownership

 S

1:2,257



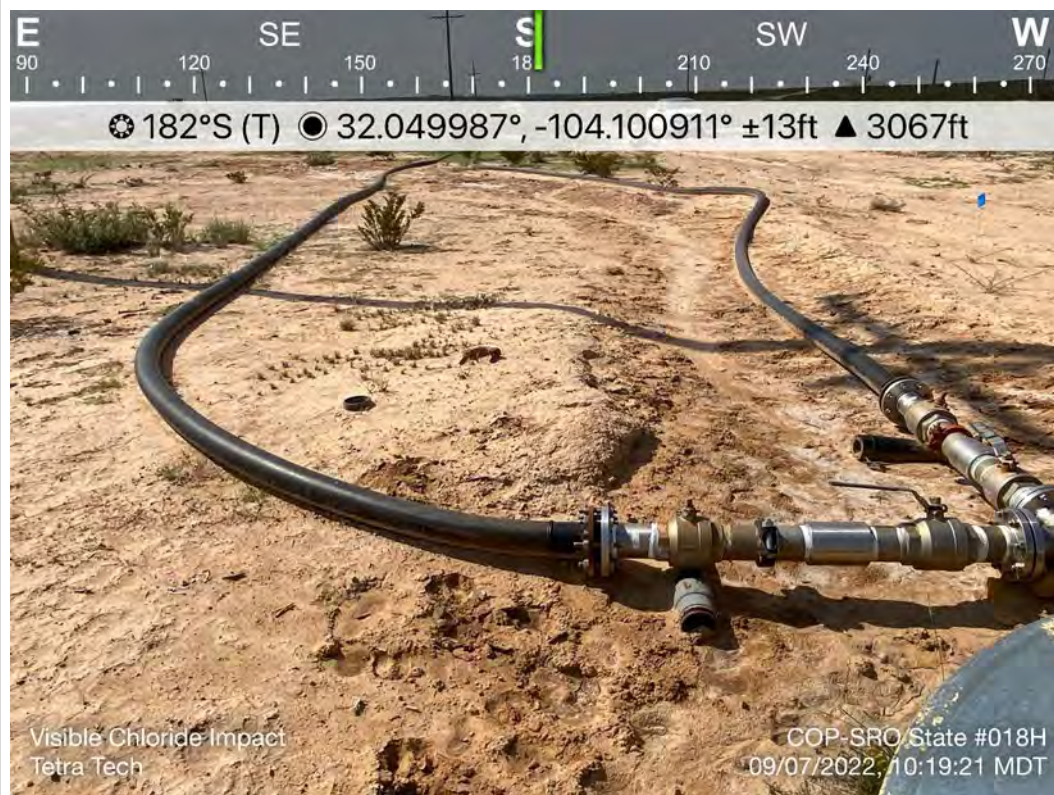
U.S. BLM, Maxar, Microsoft, OCD, Esri, HERE, Garmin, iPC, BLM

APPENDIX D

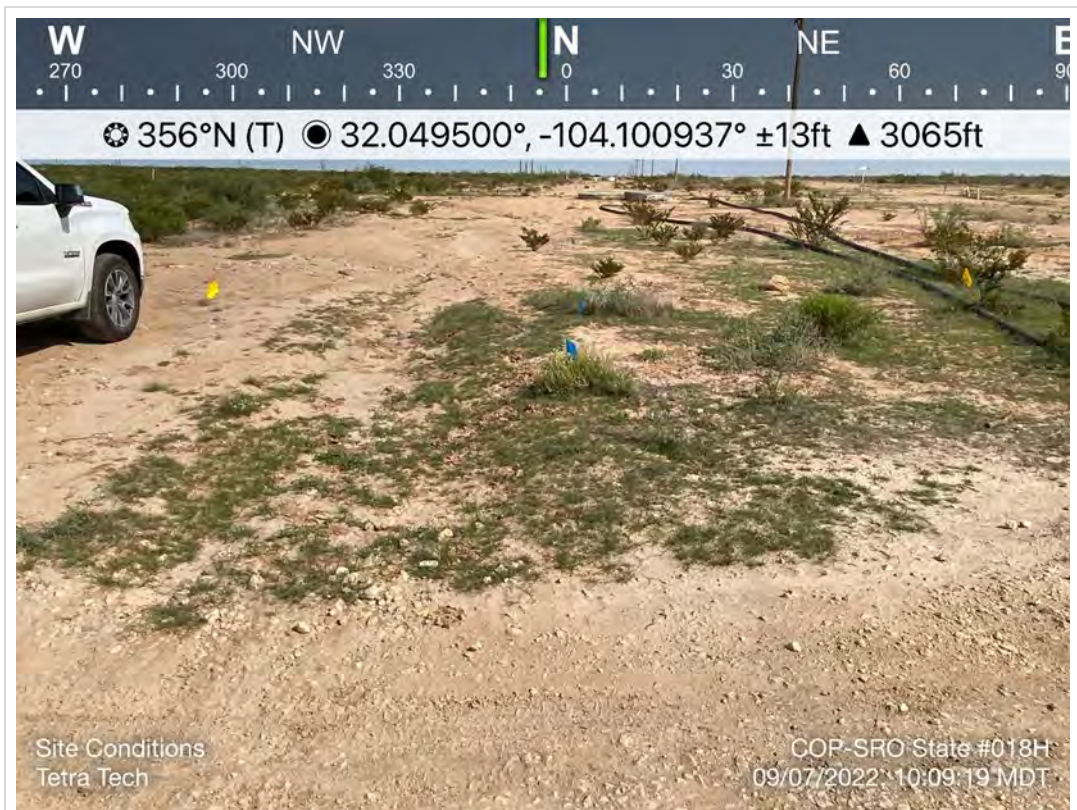
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View west of site signage. SRO State Unit #18H.	1
	SITE NAME	SRO State Com #018H Release	9/7/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View south from approximate release point. Surface polylines, erosional features, visible chloride staining.	2
	SITE NAME	SRO State Com #018H Release	9/7/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View north from southern end of release extents. Subsurface line markings.	3
	SITE NAME	SRO State Com #018H Release	9/7/2022



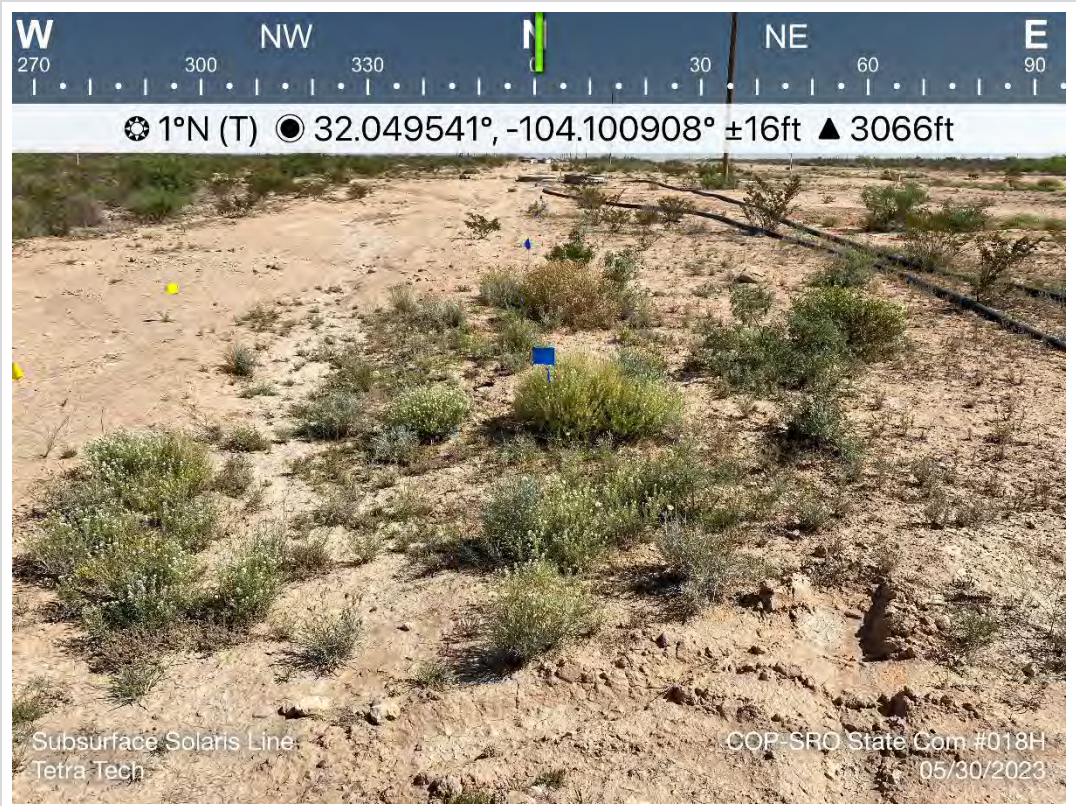
TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View south-southeast of surface flowlines. View of approximate release extent with visible chloride staining.	4
	SITE NAME	SRO State Com #018H Release	9/7/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View south of valve can and surface flowlines. View of approximate release extent with visible chloride staining.	5
	SITE NAME	SRO State Com #018H Release	5/30/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View west of Solaris tinhorn and subsurface water line. View of approximate release extent with visible chloride staining.	6
	SITE NAME	SRO State Com #018H Release	5/30/2023



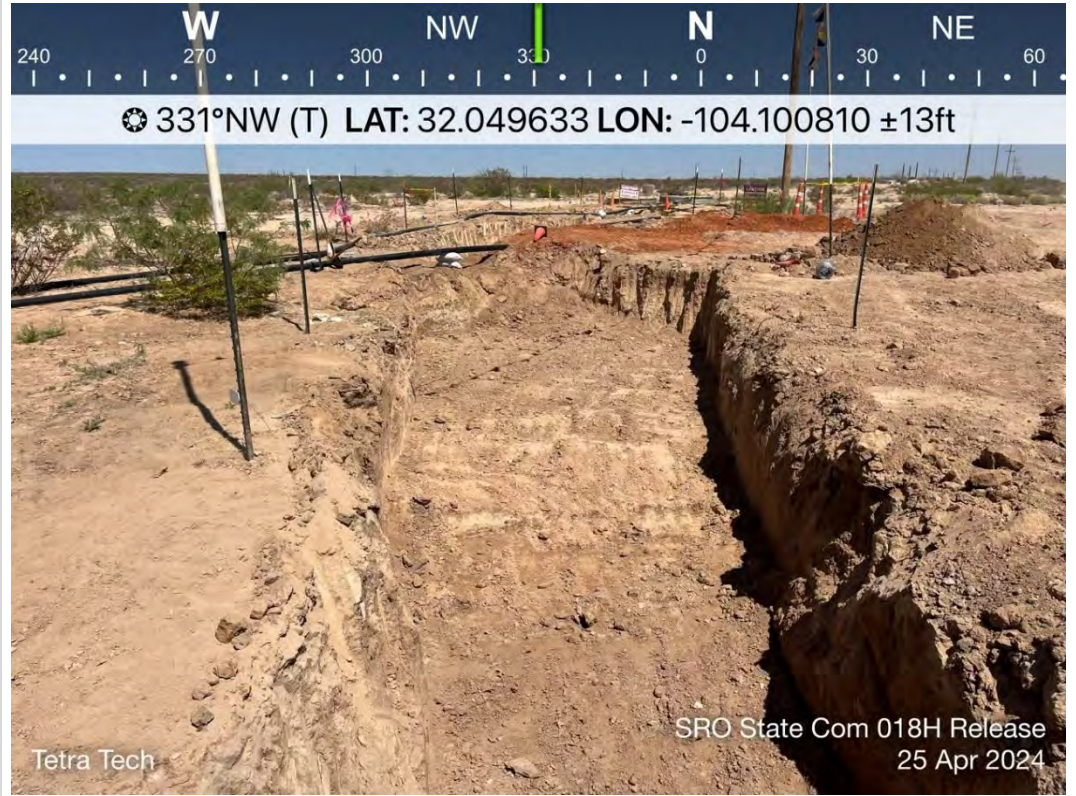
TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View of ponded rainwater on pad in surface depression.	7
	SITE NAME	SRO State Com #018H Release	5/30/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View south of open excavation of approximately 4 ft bgs.	8
	SITE NAME	SRO State Com #018H Release	4/25/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View of south-southeast of open excavation of approximately 4 ft bgs.	9
	SITE NAME	SRO State Com #018H Release	4/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View north-northwest of open excavation of approximately 4 ft bgs. View of padded polylines and hand dig excavation areas.	10
	SITE NAME	SRO State Com #018H Release	4/25/2024



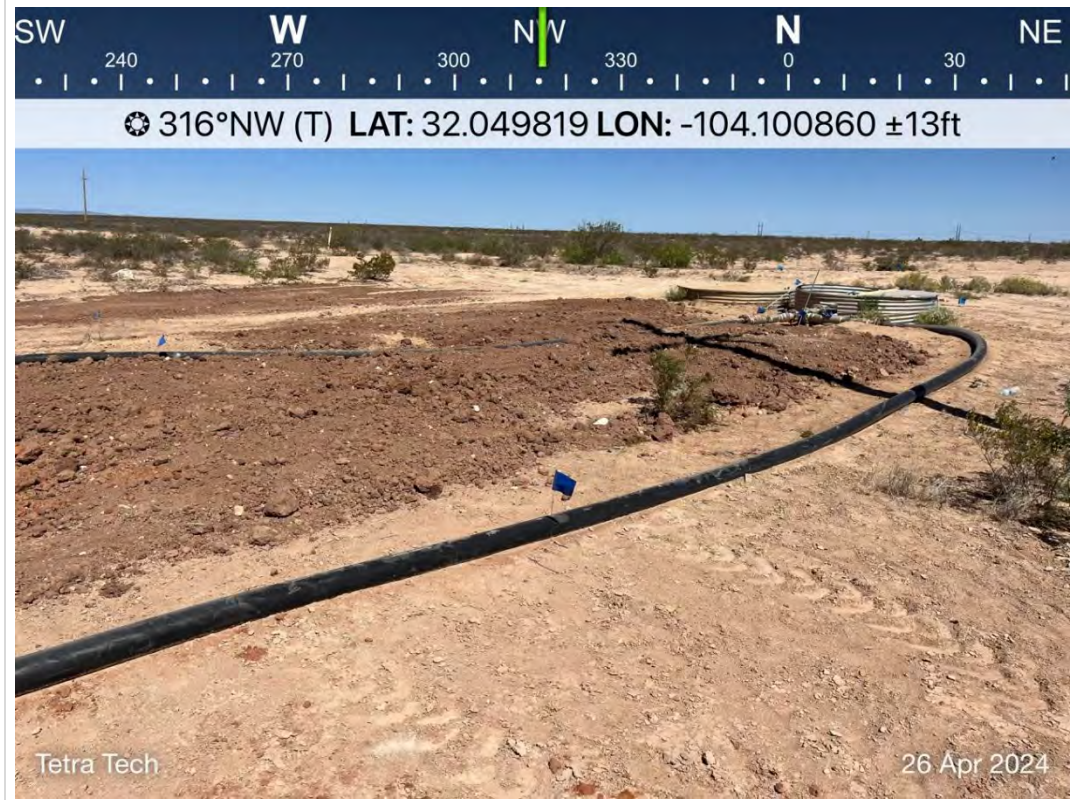
TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View north-northwest of backfilled and seeded excavation.	11
	SITE NAME	SRO State Com #018H Release	4/26/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View east-southeast of backfilled and seeded excavation.	12
	SITE NAME	SRO State Com #018H Release	4/26/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View north-northeast of backfilled and seeded excavation.	13
	SITE NAME	SRO State Com #018H Release	4/26/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02826	DESCRIPTION	View northwest of backfilled and seeded excavation.	14
	SITE NAME	SRO State Com #018H Release	4/26/2024

APPENDIX E

Waste Manifests



(PLEASE PRINT)

REQUIRED INFORMATION

Name ThelmaPhone No. 432-448-8630

GENERATOR

NO. 311700

Operator No. _____

Operators Name Conrad

Address _____

City, State, Zip _____

Phone No. _____

Permit/RRC No. _____

Lease/Well Name & No. 51055 Con 18H PolaseCounty 281API No. 30615-3999

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)

	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds	_____	_____
Oil Based Cuttings	_____	_____
Water Based Muds	_____	_____
Water Based Cuttings	_____	_____
Produced Formation Solids	_____	_____
Tank Bottoms	_____	_____
E&P Contaminated Soil	_____	_____
Gas Plant Waste	_____	_____
	INTERNAL USE ONLY	_____
	Truck Washout (exempt 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

QUANTITY B-BARRELS 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)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name McDole Petroleum

Address _____

Phone No. 955 357 0050Driver's Name Jose R. ...

Phone No. _____

Truck No. 1187

WHP No. _____

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: 18:29 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D7Site Name/ Permit No. Red Bluff Facility / STF-065Address 5053 US Hwy 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

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

NORM (mR/hr) _____

TANK BOTTOMS

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

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

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE



(PLEASE PRINT)

REQUIRED INFORMATION

Name _____

Phone No. _____

GENERATOR

NO. 330497

Operator No. _____
Operators Name Caroia
Address _____
City, State, Zip _____
Phone No. _____

Permit/RRC No. _____
Lease/Well Name & No. SRO State Com 4018H
County SDD
API No. 30-015-39999
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 WASTES (type and generation process of the waste)
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	
E&P Contaminated Soil	Truck Washout (exempt waste)	
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

QUANTITY B-BARRELS 18 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)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

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

Driver's Name Acic
Phone No. _____
Truck No. 7362
WHP No. _____

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: 1:06 PM

OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D7

Site Name/ Permit No. Red Bluff Facility / STF-065
Address 5053 US Hwy 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

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

NORM (mR/hr) 8**TANK BOTTOMS**

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W 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

TITLE

SIGNATURE



(PLEASE PRINT)

REQUIRED INFORMATION

Name Andrew L.

Phone No. _____

GENERATOR

NO. 320181

Operator No. _____

Permit/RRC No. _____

Operators Name Conoco

Lease/Well _____

Address _____

Name & No. SRO State Comm 184

City, State, Zip _____

County 2007

Phone No. _____

API No. 30-015-39999

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 WASTES (type and generation process of the waste)
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	
E&P Contaminated Soil	Truck Washout (exempt waste)	
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

QUANTITY B-BARRELS 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)

Ike Turner

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name McNARD PARTNERSDriver's Name TURNER

Address _____

Phone No. _____

Phone No. 575-398-0050Truck No. M-90

WHP No. _____

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.

4-25-24Turner

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 10:12 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. 27Site Name/Permit No. Red Bluff Facility / STF-065Phone No. 432-448-4239Address 5053 US Hwy 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO

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

NORM (mR/hr) 8

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

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

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

ACCEPTED

DENIED

If denied, why?

Jana Garcia

NAME (PRINT)

DATE

TITLE

SIGNATURE



(PLEASE PRINT)

REQUIRED INFORMATION

Name ANDREW LARGIA

Phone No. _____

GENERATOR

NO. 320182

Operator No. _____

Permit/RRC No. _____

Operators Name Conoco

Lease/Well

Address _____

Name & No. SNO STATE Cam #018H

City, State, Zip _____

County

Phone No. _____

API No. 30-015-39999

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 WASTES (type and generation process of the waste)
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	
E&P Contaminated Soil	Truck Washout (exempt waste)	
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

QUANTITY B-BARRELS 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)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name McNAB PARTNERSDriver's Name ELMER R.

Address _____

Phone No. _____

Phone No. 575-398-0050Truck No. M-90

WHP No. _____

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 4-26-24DRIVER'S SIGNATURE Elmer R. D7

TRUCK TIME STAMP

IN: 10:48 AM OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D7Site Name/
Permit No.Red Bluff Facility / STF-065

Phone No.

432-448-4239

Address

5053 US Hwy 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

NORM (mR/hr) _____

TANK BOTTOMS

Feet

Inches

1st Gauge	
2nd Gauge	
Received	

BS&W 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

TITLE

SIGNATURE



(PLEASE PRINT)

REQUIRED INFORMATION

Name IKK AVAILPhone No. 713-444-4444

GENERATOR

NO. 320294

Operator No. _____

Permit/RRC No. _____

Operators Name Chadwick Phillips

Lease/Well _____

Address _____

Name & No. SRO State Com. 01847660

County _____

API No. 30-015-39999

City, State, Zip _____

Rig Name & No. _____

Phone No. _____

AFE/PO No. _____

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

	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds	Washout Water (Non-Injectable)	<u>DUMP</u> <u>TRUCK - M-36</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)	
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 backQUANTITY B-BARRELS 16 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)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

TRANSPORTER

Transporter's Name AK NORTH PARTNERSDriver's Name VICTOR MANZANO

Address _____

Phone No. M-36

Phone No. _____

Truck No. _____

WHP No. _____

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: 10:40 OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. D7Site Name/ Permit No. Red Bluff Facility / STF-065Phone No. 432-448-4239Address 5053 US Hwy 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (Circle One) YES ☐ NO ☒

NORM (mR/hr) _____

TANK BOTTOMS

Feet

Inches

1st Gauge		
2nd Gauge		
Received		

BS&W 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

TITLE

SIGNATURE



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: IKE TAVAREZ
 AFE #:
 PO #:
 Manifest #: 07
 Manif. Date: 4/25/2024
 Hauler: MCNABB PARTNERS
 Driver: GUMER
 Truck #: M-90
 Card #
 Job Ref #

Ticket #: 700-1557742
 Bid #: O6UJ9A000JEC
 Date: 4/25/2024
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 39999C
 Well Name: SRO STATE COM
 Well #: 018H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 05
Manif. Date: 4/25/2024
Hauler: MCNABB PARTNERS
Driver: JOSH
Truck #: 87
Card #
Job Ref #

Ticket #: 700-1557735
Bid #: O6UJ9A000JEC
Date: 4/25/2024
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 39999C
Well Name: SRO STATE COM
Well #: 018H
Field:
Field #:
Rig: NON-DRILLING
County: EDDY (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: IKE TAVAREZ
 AFE #:
 PO #:
 Manifest #: 06
 Manif. Date: 4/25/2024
 Hauler: MCNABB PARTNERS
 Driver: ACIE
 Truck #: M83
 Card #
 Job Ref #

Ticket #: 700-1557751
 Bid #: O6UJ9A000JEC
 Date: 4/25/2024
 Generator: CONOCOPHILLIPS
 Generator #: 40946
 Well Ser. #: 39999C
 Well Name: SRO STATE COM
 Well #: 018H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 08
Manif. Date: 4/26/2024
Hauler: MCNABB PARTNERS
Driver: ACIE
Truck #: M83
Card #
Job Ref #

Ticket #: 700-1558013
Bid #: O6UJ9A000JEC
Date: 4/26/2024
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 39999C
Well Name: SRO STATE COM
Well #: 018H
Field:
Field #:
Rig: NON-DRILLING
County: EDDY (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: IKE TAVAREZ
AFE #:
PO #:
Manifest #: 11
Manif. Date: 4/26/2024
Hauler: MCNABB PARTNERS
Driver: GUMER
Truck #: M90
Card #
Job Ref #

Ticket #: 700-1558037
Bid #: O6UJ9A000JEC
Date: 4/26/2024
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 39999C
Well Name: SRO STATE COM
Well #: 018H
Field:
Field #:
Rig: NON-DRILLING
County: EDDY (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to read "Gumer Redz", is written over a horizontal line.

A handwritten signature in black ink, consisting of stylized initials, is written over a horizontal line.

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CONOCOPHILLIPS
Customer #: CRI2190
Ordered by: Ike Tavaréz
AFE #:
PO #:
Manifest #: 12
Manif. Date: 4/26/2024
Hauler: MCNABB PARTNERS LLC
Driver: Andrew
Truck #: m36
Card #
Job Ref #

Ticket #: 700-1558038
Bid #: O6UJ9A000JEC
Date: 4/26/2024
Generator: CONOCOPHILLIPS
Generator #: 40946
Well Ser. #: 39999C
Well Name: SRO STATE COM
Well #: 018H
Field:
Field #:
Rig: NON-DRILLING
County: EDDY (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	16.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ 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 in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

APPENDIX F

Laboratory Analytical Data



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

February 20, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ILLUSTRATED MAN FEE COM 1H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/24 15:06.

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 with a large, stylized 'C' and 'K'.

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:	02/15/2024	Sampling Date:	02/15/2024
Reported:	02/20/2024	Sampling Type:	Soil
Project Name:	ILLUSTRATED MAN FEE COM 1H RELEAS	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02936	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY CO, NEW MEXICO		

Sample ID: BACKFILL - COMPOSITE (H240744-01)

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	02/16/2024	ND	1.89	94.7	2.00	13.0		
Toluene*	<0.050	0.050	02/16/2024	ND	1.79	89.4	2.00	17.1		
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	1.81	90.5	2.00	18.4		
Total Xylenes*	<0.150	0.150	02/16/2024	ND	5.33	88.9	6.00	18.4		
Total BTEX	<0.300	0.300	02/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	224	16.0	02/16/2024	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	02/19/2024	ND	215	107	200	0.835	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	206	103	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.5 % 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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco-Phillips Project Manager: Ernstson Lundy Address: City: State: Zip: Phone #: Fax #: Project #: 212C-MD-02936 Project Owner: Project Name: Illustrated Man Fee Com #001H Project Location: Eddy Co, NM Sampler Name: Andrew Garcia				BILL TO P.O. #: Company: Tetra Tech Attn: Christien Lundy Address: City: State: Zip: Phone #: Fax #: ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. Sample I.D. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Backfill - Composite </div>				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :			
MATRIX PRESERV SAMPLING				DATE TIME			
15 Feb 24 1200				TPH BTEX Chlorides			
15 Feb 24 1200				X X X			

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Relinquished By: Andrew Garcia **Received By:** Shedrick Wiley

Date: 15 Feb 24 **Date:** 15 Feb 24

Time: 1500 **Time:** 1500

Relinquished By: **Received By:**

REMARKS: Pulley Pit (32.1832840, -104.0605004)

Turnaround Time: **Standard** ☒ **Rush** ☐

Thermometer ID #140 **Bacteria (only) Sample Condition**

Correction Factor 0°C **Cool** ☐ **Intact** ☐ **Observed Temp. °C**

Verbal Result: ☐ Yes ☒ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:



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

April 24, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SRO STATE COM #018H

Enclosed are the results of analyses for samples received by the laboratory on 04/23/24 16:20.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: ESW - 1 (H242166-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/23/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/23/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/23/2024	ND	6.22	104	6.00	1.06		
Total BTX	<0.300	0.300	04/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: ESW - 2 (H242166-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/23/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/23/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/23/2024	ND	6.22	104	6.00	1.06		
Total BTX	<0.300	0.300	04/23/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SSW - 1 (H242166-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/23/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/23/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/23/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	48.0	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: WSW - 1 (H242166-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/23/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/23/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/23/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: WSW - 2 (H242166-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/24/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 1 (H242166-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/24/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/24/2024	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	1740	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 2 (H242166-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/24/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/24/2024	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	1800	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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*=Accredited Analyte

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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:	04/23/2024	Sampling Date:	04/23/2024
Reported:	04/24/2024	Sampling Type:	Soil
Project Name:	SRO STATE COM #018H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02826	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 3 (H242166-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2024	ND	2.10	105	2.00	0.222		
Toluene*	<0.050	0.050	04/24/2024	ND	2.05	102	2.00	0.891		
Ethylbenzene*	<0.050	0.050	04/24/2024	ND	2.08	104	2.00	1.29		
Total Xylenes*	<0.150	0.150	04/24/2024	ND	6.22	104	6.00	1.06		
Total BTEX	<0.300	0.300	04/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1780	16.0	04/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2024	ND	211	105	200	2.99	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	217	108	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco Phillips		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: Christian Lulu		City: _____ State: _____ Zip: _____		Company: Fetra Tech		Attn: Lisbeth Chavira		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____	
Project #: 212C-MD-02526		Project Owner: State of NM		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____	
Project Location: Eddy Co, NM		Project Name: State of NM		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____	
Sample Name: Andrew Garcia		Project Name: State of NM		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____		Phone #: _____ Fax #: _____	
FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY	
Lab I.D. H9491140		Sample I.D. ESV-1		G (G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER	
ESV-2		SSW-1		SOIL		OIL		SLUDGE		OTHER	
WSW-1		WSW-2		ACID/BASE:		ICE / COOL		OTHER		DATE	
FS-1		FS-2		DATE		TIME		TPH		BTX	
FS-3		FS-4		TIME		TIME		Chlorides		Chlorides	
ESV-1		ESV-2		ESV-3		ESV-4		ESV-5		ESV-6	
ESV-7		ESV-8		ESV-9		ESV-10		ESV-11		ESV-12	
ESV-13		ESV-14		ESV-15		ESV-16		ESV-17		ESV-18	
ESV-19		ESV-20		ESV-21		ESV-22		ESV-23		ESV-24	
ESV-25		ESV-26		ESV-27		ESV-28		ESV-29		ESV-30	
ESV-31		ESV-32		ESV-33		ESV-34		ESV-35		ESV-36	
ESV-37		ESV-38		ESV-39		ESV-40		ESV-41		ESV-42	
ESV-43		ESV-44		ESV-45		ESV-46		ESV-47		ESV-48	
ESV-49		ESV-50		ESV-51		ESV-52		ESV-53		ESV-54	
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ESV-265		ESV-266		ESV-267		ESV-268		ESV-269		ESV-270	
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ESV-403		ESV-404		ESV-405		ESV-406		ESV-407		ESV-408	
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ESV-421		ESV-422		ESV-423		ESV-424		ESV-425		ESV-426	
ESV-427		ESV-428		ESV-429		ESV-430		ESV-431		ESV-432	
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ESV-463		ESV-464		ESV-465		ESV-466		ESV-467		ESV-468	
ESV-469		ESV-470		ESV-471		ESV-472		ESV-473		ESV-474	
ESV-475		ESV-476		ESV-477		ESV-478		ESV-479		ESV-480	
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ESV-487		ESV-488		ESV-489		ESV-490		ESV-491		ESV-492	
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ESV-505		ESV-506		ESV-507		ESV-508		ESV-509		ESV-510	
ESV-511		ESV-512		ESV-513		ESV-514		ESV-515		ESV-516	
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ESV-529		ESV-530		ESV-531		ESV-532		ESV-533		ESV-534	
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ESV-601		ESV-602		ESV-603		ESV-604		ESV-605		ESV-606	
ESV-607		ESV-608		ESV-609		ESV-610		ESV-611		ESV-612	
ESV-613		ESV-614		ESV-615		ESV-616		ESV-617		ESV-618	
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ESV-697		ESV-698		ESV-699		ESV-700		ESV-701		ESV-702	
ESV-703		ESV-704		ESV-705		ESV-706		ESV-707		ESV-708	
ESV-709		ESV-710		ESV-711		ESV-712		ESV-713		ESV-714	
ESV-715		ESV-716		ESV-717		ESV-718		ESV-719		ESV-720	
ESV-721		ESV-722		ESV-723		ESV-724		ESV-725		ESV-726	
ESV-727		ESV-728		ESV-729		ESV-730		ESV-731		ESV-732	
ESV-733		ESV-734		ESV-735		ESV-736		ESV-737		ESV-738	
ESV-739		ESV-740		ESV-741		ESV-742		ESV-743		ESV-744	
ESV-745		ESV-746		ESV-747		ESV-748		ESV-749		ESV-750	
ESV-751		ESV-752		ESV-753		ESV-754		ESV-755		ESV-756	
ESV-757		ESV-758		ESV-759		ESV-760		ESV-761		ESV-762	
ESV-763		ESV-764		ESV-765		ESV-766		ESV-767		ESV-768	
ES											

Appendix G

NMSLO Seed Mixture Details


Custom Soil Resource Report
Soil Map




Custom Soil Resource Report


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot


 Closed Depression

 Gravel Pit


 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	0.1	100.0%
Totals for Area of Interest		0.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Eddy Area, New Mexico**RE—Reagan-Upton association, 0 to 9 percent slopes****Map Unit Setting***National map unit symbol:* 1w5d*Elevation:* 1,100 to 5,400 feet*Mean annual precipitation:* 6 to 14 inches*Mean annual air temperature:* 60 to 64 degrees F*Frost-free period:* 180 to 240 days*Farmland classification:* Farmland of statewide importance**Map Unit Composition***Reagan and similar soils:* 70 percent*Upton and similar soils:* 25 percent*Minor components:* 5 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Reagan****Setting***Landform:* Fan remnants, alluvial fans*Landform position (three-dimensional):* Rise*Down-slope shape:* Convex, linear*Across-slope shape:* Linear*Parent material:* Alluvium and/or eolian deposits**Typical profile***H1 - 0 to 8 inches:* loam*H2 - 8 to 60 inches:* loam**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* More than 80 inches*Drainage class:* Well drained*Runoff class:* Low*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high
(0.60 to 2.00 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 40 percent*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 1.0*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)**Interpretive groups***Land capability classification (irrigated):* 2e*Land capability classification (nonirrigated):* 6e*Hydrologic Soil Group:* B*Ecological site:* R042CY153NM - Loamy*Hydric soil rating:* No

Custom Soil Resource Report

Description of Upton**Setting**

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042CY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components**Atoka**

Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

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Custom Soil Resource Report

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SLO Seed Mix

SM Series

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGETATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



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QUESTIONS

Action 355447

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1719137895
Incident Name	NAB1719137895 SRO STATE COM #018H FL @ 30-015-39999
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-39999] SRO STATE COM #018H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SRO STATE COM #018H FL
Date Release Discovered	07/04/2017
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 30 BBL Recovered: 5 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2
Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 06/18/2024
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QUESTIONS, Page 3

Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
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 51 and 75 (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)	Between 500 and 1000 (ft.)
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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	12800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1720
GRO+DRO	(EPA SW-846 Method 8015M)	1250
BTEX	(EPA SW-846 Method 8021B or 8260B)	1
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	06/26/2024
On what date will (or did) the final sampling or liner inspection occur	06/28/2024
On what date will (or was) the remediation complete(d)	07/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	1955
What is the estimated volume (in cubic yards) that will be reclaimed	290
What is the estimated surface area (in square feet) that will be remediated	1955
What is the estimated volume (in cubic yards) that will be remediated	290

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 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	355447
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
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	No
OTHER (Non-listed remedial process)	No
<i>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>	
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: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 06/18/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 355447
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	335155
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1955

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	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	1777
What was the total volume (cubic yards) remediated	212
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	1777
What was the total volume (in cubic yards) reclaimed	212
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: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 06/18/2024
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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, Page 7

Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	355447
	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	1777
What was the total volume of replacement material (in cubic yards) for this site	212
<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 reseedling commence(d)	04/26/2024
Summarize any additional reclamation activities not included by answers (above)	In accordance with 19.15.29.13 NMAC, all areas disturbed by the release incident and remediation activities have been reclaimed. Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. The backfilled areas in the pasture were seeded to aid in revegetation. Based on the soils of the site NMSLO Loamy Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by handheld broadcaster and raked.
<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 reseedling 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: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 06/18/2024

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QUESTIONS, Page 8

Action 355447

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
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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CONDITIONS

Action 355447

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355447
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	6/20/2024
amaxwell	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.	6/20/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/20/2024