



July 26, 2024

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

**Re: Closure Report
ConocoPhillips
Red Hills West 16 State TC #012H Release
Unit Letter A, Section 16, Township 26 South, Range 30 East
Lea County, New Mexico
Incident ID# nTO1431831520**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a historical release that occurred at the Red Hills West 16 State TC #012H well (API No. 30-025-41706). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 16, Township 26 South, Range 30 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.04935°, -103.67239°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release occurred on November 5, 2014. While transferring drilling mud from the rig's active system to storage frac tank, the frac tank was over filled. Approximately fifteen (15) barrels (bbls) of drilling mud (brine water) were released, of which fourteen (14) bbls were recovered. The approximate release extent is presented in Figure 3. Pumping was stopped and soil remediation began immediately. The NMOCD approved the initial C-141 on November 14, 2014, and subsequently assigned the release the Incident ID nTO1431831520. The initial C-141 form is included in Appendix A.

This incident is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD signed on May 7 and 9, 2019, respectively.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on State Trust Land managed by the New Mexico State Land Office (NMSLO). A review of the NMSLO Land Status Map was completed, and the release footprint is located within active oil and gas lease LG36200000, under EOG Resources, Inc. 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) is required at the Site.

Tetra Tech

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CULTURAL PROPERTIES PROTECTION

Tetra Tech, on behalf of ConocoPhillips, contracted SWCA Environmental Consultants (SWCA) to conduct an Archeological Resources Management Section (ARMS) review in the release area to comply with 19.2.24 New Mexico Administrative Code (NMAC). On October 10, 2023, SWCA completed a literature and file search using the State of New Mexico's New Mexico Cultural Resources Information System (NMCRIS) online database which included a review of known historic resources, including the built environment, archaeological sites, and State/National Register listed properties. Other sources include the Bureau of Land Management (BLM) General Land Office Records, which include land patent and general land office survey data.

In the review, SWCA found the area surrounding the site footprint (radius of 500 meters) has been subject to fourteen (14) cultural resource surveys, nine (9) of which are qualifying. Three (3) previously recorded sites are located outside of the project area but within the 500 meters search buffer. The project area is entirely located on NMSLO-managed lands and is covered by two (2) qualifying survey conducted within the last ten years (NMCRIS Activity No. 141048 and 127646) and is located on previously disturbed land from oil and gas construction activities.

All remediation work will remain within the previously qualifying survey area and the approved existing disturbance. If cultural materials are identified during ground disturbing activities, work will be stopped and the NMSLO will be contacted. A copy of the ARMS letter is included in Appendix B.

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 NMAC. The Site is in an area of medium karst potential.

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, there is one well within 1.73 miles (2,790 meters) with a total well depth of 280 feet below ground surface (bgs) and a depth to water of 180 feet bgs.

Depth-to-Groundwater Determination

As the available water level information is from a well farther than 1/2-mile away from the Site, ConocoPhillips elected to drill a boring to verify depth to groundwater. The proposed location of the depth to groundwater boring is located on BLM lands. Tetra Tech contacted Shelly Tucker (now Shelly Taylor) of the BLM via email to obtain approval of the location. An *Application for Permit to Drill* (WD-07) was submitted to the NMOSE on November 13, 2023. Approval was granted by the NMOSE on November 29, 2023; a copy of the approved permit and BLM approval is included in Appendix B.

On January 8, 2024, ConocoPhillips contracted a licensed well drilling subcontractor to drill a groundwater determination borehole (DTW) to 55 feet bgs in the pasture east of the Red Hills West 16 State TC #012H well pad. The borehole was temporarily set and screened using 2-inch PVC well materials. No water was present in the well during or after drilling. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The borehole coordinates are 32.049398°, -103.671311° and the boring location is indicated in Figure 3. The site characterization data, boring log, and temporary well diagram are included in Appendix C.

REGULATORY FRAMEWORK

Based upon the on-pad release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

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levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization (on-pad release footprint), the depth to groundwater boring, 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 Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

2023 SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech personnel were initially onsite on October 10-11, 2023, to conduct assessment activities at the Site. Three (3) hand auger borings (AH-3, AH-5, and AH-6) were installed to 1 foot bgs around the perimeter of the release extent to achieve horizontal delineation. Two (2) hand auger borings (AH-1 and AH-2) were installed within the apparent release extent to achieve vertical delineation. Hand auger refusal was met at roughly 1 foot bgs; therefore, vertical delineation was not achieved due to the dense subsurface lithology of the pad beneath the release footprint.

Tetra Tech remobilized to the site on December 12, 2023, to install two (2) trenches (T-1 and T-2) to 6 feet bgs and 3 feet bgs, respectively, using a backhoe to evaluate the vertical extents of the release footprint. An additional hand auger boring (AH-4) was installed to east of the release extent to 1-foot bgs to complete horizontal delineation. Trench locations T-1 and T-2 were installed near the locations of AH-1 and AH-2. The hand auger borings and trench locations from the October and December 2023 sampling event are presented in Figure 3.

A total of twelve (12) soil samples were collected from the six (6) borings and two (2) trenches and sent to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) to be analyzed for chloride via Method SM4500, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.

The laboratory analytical results from the October and December 2023 assessments are summarized in Table 1. There were no analytical results which exceeded the Site RRALs for any of the analyzed constituents. Horizontal and vertical delineation of the release was achieved as a result of the October and December 2023 additional assessment activities.

2024 NMOCD REJECTION

Tetra Tech submitted a Revised Characterization and Closure Request on January 26, 2024. The NMOCD rejected the Closure Request on February 2, 2024, with the following comments:

- "Closure denied."

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- *Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Confirmation soil samples must consist of five-point composite samples from the side wall and base and individual grab samples from any wet or discolored areas, representing a surface area of no more than 200 ft² unless otherwise approved.*
- *Submit a report via the OCD permitting portal by 06/07/2024."*

A copy of the Revised Characterization and Closure Request is available in the NMOCD online incident files.

On February 12, 2024, a Microsoft Teams meeting was held with ConocoPhillips, Tetra Tech, and Ms. Ashley Maxwell of the NMOCD to clarify the February 2, 2024, rejection comments. During this call, Ms. Maxwell stated that the submitted report requested closure for the incident based on the discreet samples collected for assessment. Ms. Maxwell said a variance to use the assessment data would have needed to be requested and approved by NMOCD in lieu of five-point composite sampling. Since a variance request was not approved, the incident closure was rejected. Ms. Maxwell recommended that five-point composite samples, each representing a surface area of no more than 200 square feet, should be collected over the impacted surface area to satisfy the confirmation sampling requirements. In this meeting, Tetra Tech clarified that horizontal delineation was achieved. Table 1 has been modified to depict which samples demonstrate horizontal and vertical delineation.

2024 SITE ASSESSMENT AND COMPOSITE SAMPLING RESULTS

On February 27, 2024, Tetra Tech personnel mobilized to conduct the five-point composite confirmation sampling activities at the Site. Sixteen (16) five-point composite samples were collected within the release area; each point was collected at the surface, and each five-point composite sample is representative of 200 square feet. The release area is approximately 3,025 square feet. The five-point composite sampling grid is presented in Figure 3.

A total of sixteen (16) five-point composite samples were collected and sent to Cardinal to be analyzed for chloride via Method SM4500, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.

The laboratory analytical results from the February 2024 assessment are summarized in Table 2. The analytical results did not have exceedances above the Site RRALs for chlorides. However, analytical results associated with composite samples CS-1 through CS-7, and CS-10 exceeded the Site RRALs for Total TPH (2,500 mg/kg) and TPH (GRO+DRO) (1,000 mg/kg).

Tetra Tech remobilized to the Site on March 12, 2024, to conduct additional sampling to vertically delineate the identified TPH exceedances from the February 2024 sampling event. Three (3) trenches (T-3 through T-5) were each installed to 6 feet bgs using a backhoe to evaluate the vertical extents in the areas of CS-1 through CS-7 and CS-10. The trench locations from the March 2024 sampling event are presented in Figure 3.

A total of twelve (12) soil samples were collected from the three (3) trenches and sent to Cardinal to be analyzed for chloride via Method SM4500, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.

The laboratory analytical results from the March 2024 additional assessment are summarized in Table 1. Trench T-3 exceeded the Site RRAL of 1,000 mg/kg for GRO+DRO with a concentration of 2,090 mg/kg. Horizontal and vertical delineation of the release were achieved for both chloride and TPH.

WORK PLAN APPROVAL

A Remediation Work Plan dated April 1, 2024, was prepared based on the results of the 2023 and 2024 release assessment activities and submitted to the NMOCD and NMSLO for approval. The Work Plan was approved by NMOCD on April 15, 2024, with the following comments:

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- *“Work plan approved. Variance request to sample every 400 square feet approved.”*
- *Submit a report via the OCD permitting portal by August 19, 2024.”*

The NMSLO Environmental Compliance Office (ECO) approved the remediation plan on April 19, 2024, via email. A copy of the regulatory correspondence is included as Appendix B.

REMEDATION ACTIVITIES AND CONFIRMATION SAMPLING

From June 17 to July 21, 2024, Tetra Tech personnel were onsite to remediate the release as proposed in the approved Work Plan, including excavation, disposal, and backfill. The extent of impacted soils was confirmed with field soil screening data and excavated to depths ranging from 2 to 4 feet below surrounding grade. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD was notified via the OCD portal on June 12, 2024. Documentation of associated regulatory correspondence is included in Appendix B. On June 17 and June 19, 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.

All of the excavated material was transported offsite for proper disposal. Approximately two hundred and sixteen (216) cubic yards of material were transported to the Northern Delaware Basin Landfill in Jal, New Mexico. Copies of the waste manifests are included in Appendix E.

Per the conditions of the NMOCD approval of the Work Plan, confirmation samples were collected such that each five-point composite sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. A total of four (4) five-point composite confirmation floor samples and eight (8) five-point composite confirmation sidewall sample were collected during the remedial activities. Confirmation sidewall sample locations were labeled with “SW”-#, confirmation floor sample locations were labeled with “FS”-#.

Initial confirmation soil sampling analytical results associated with all confirmation sampling locations exceeded the Total TPH reclamation limit of 100, mg/kg, and one location (ESW-1) also exceeded the chloride reclamation limit of 600 mg/kg. The excavation floors were deepened, and sidewalls expanded in these areas, and iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-additional excavation.

Final analytical results for the confirmation soil samples (floor and sidewalls) were below the respective RRALs for chloride, BTEX, and TPH. The results of the June 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 4.

RECLAMATION ACTIVITIES

In accordance with 19.15.29.13 NMAC, all areas disturbed by the remediation have been reclaimed. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500CI-B. The analytical results were directly compared to the reclamation requirements and established Site RRALs to demonstrate compliance.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 4. In accordance with 19.15.29.12 NMAC, the reclaimed area contains a minimum

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non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500Cl-B. One (1) representative five-point composite sample was collected from the backfill material used for the reclamation of the excavation. Soil backfill composite sampling results are summarized in Table 4.

Backfilled areas were restored to the original condition. This release footprint was within an active pad, so these areas were not seeded. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

CONCLUSION

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

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Geoscientist



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Moises Cantu Garcia, PBU – ConocoPhillips
Ms. Tami Knight, ECO

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LIST OF ATTACHMENTS

Figures:

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

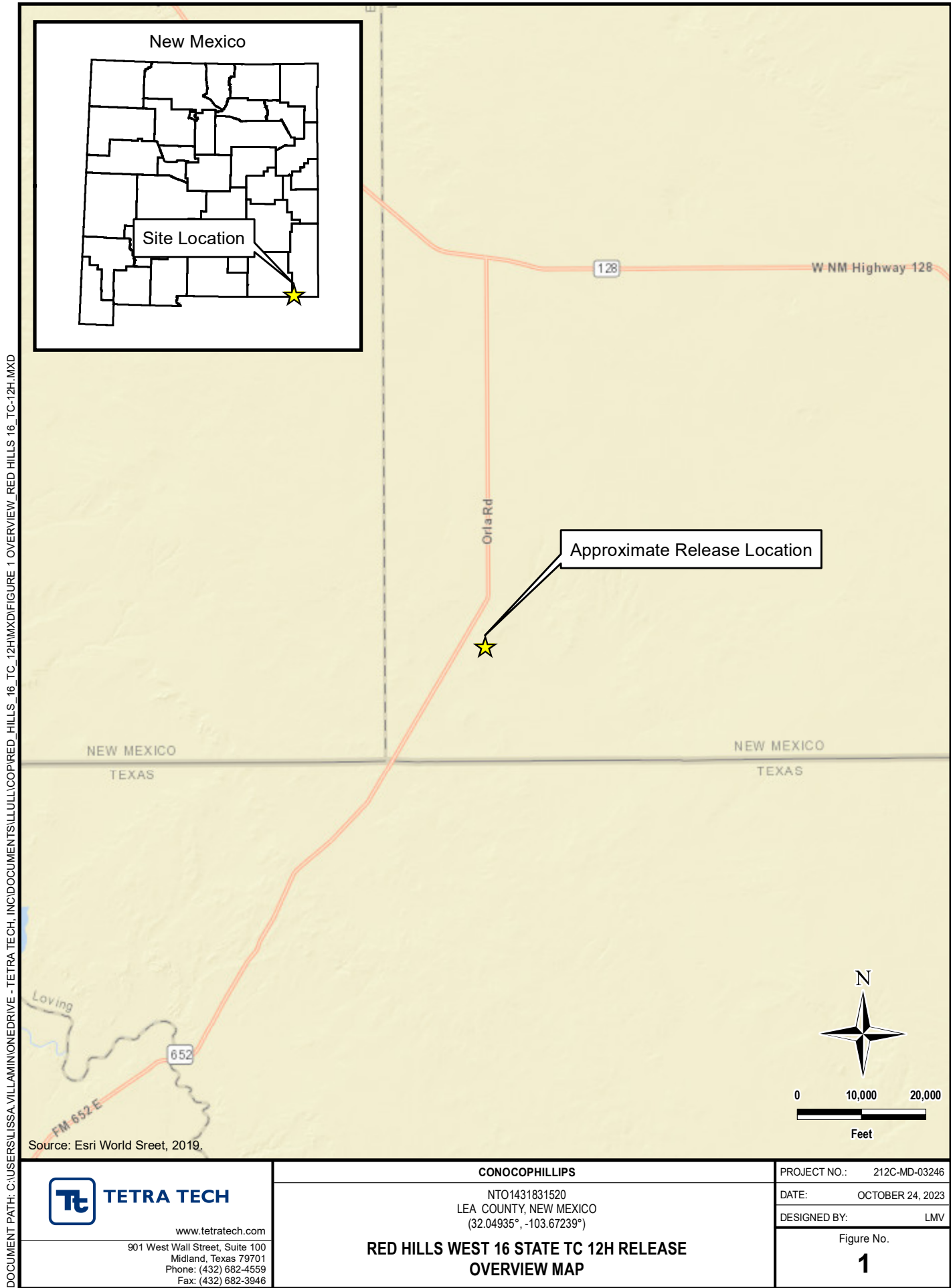
Tables:

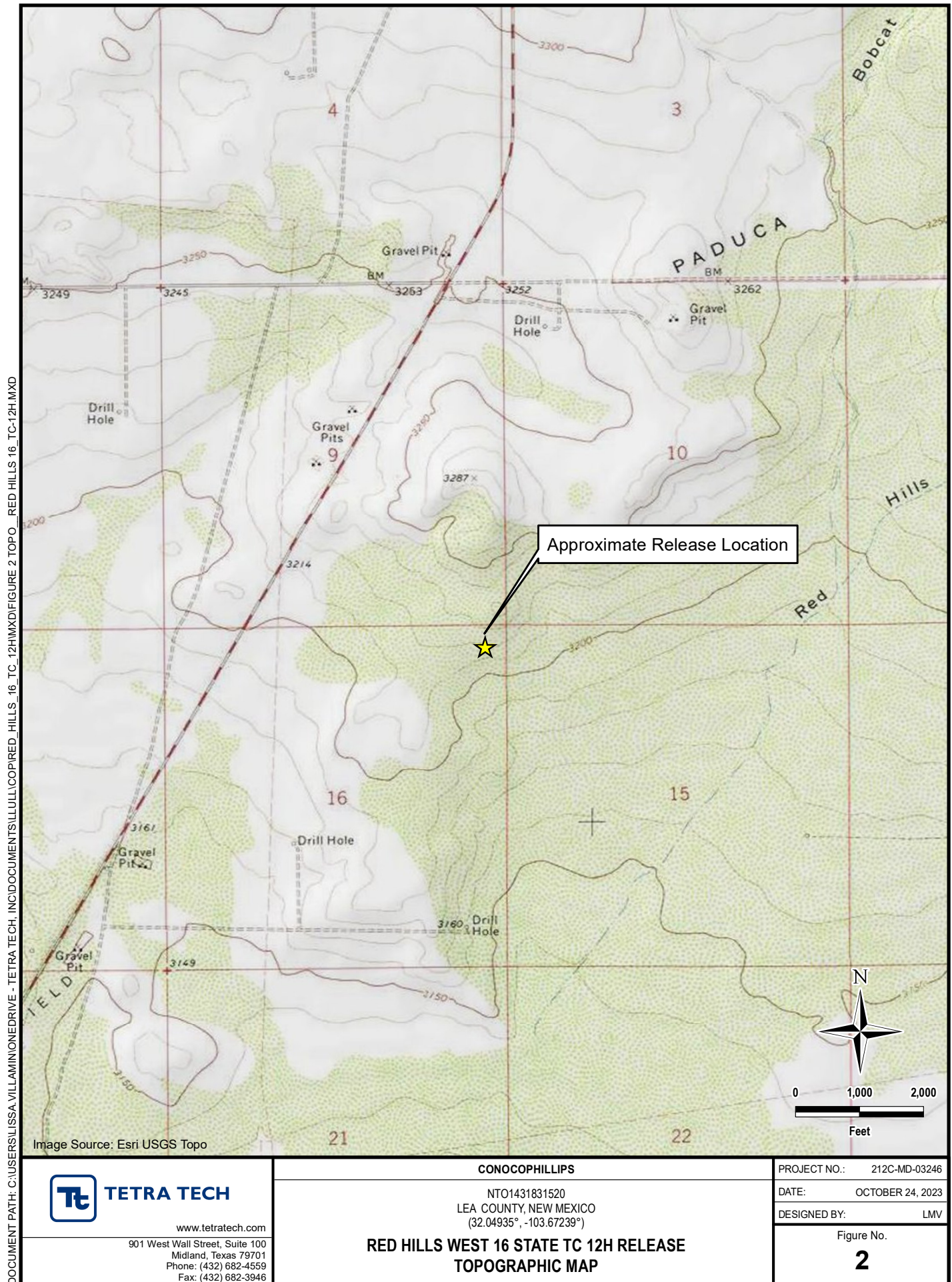
- Table 1 – Summary of Analytical Results – 2023 Soil Assessment
- Table 2 – Summary of Analytical Results – 2024 Soil Composite Sampling Assessment
- Table 3 – Summary of Analytical Results – 2024 Soil Remediation
- Table 4 – Summary of Analytical Results – 2024 Backfill Composite Sample

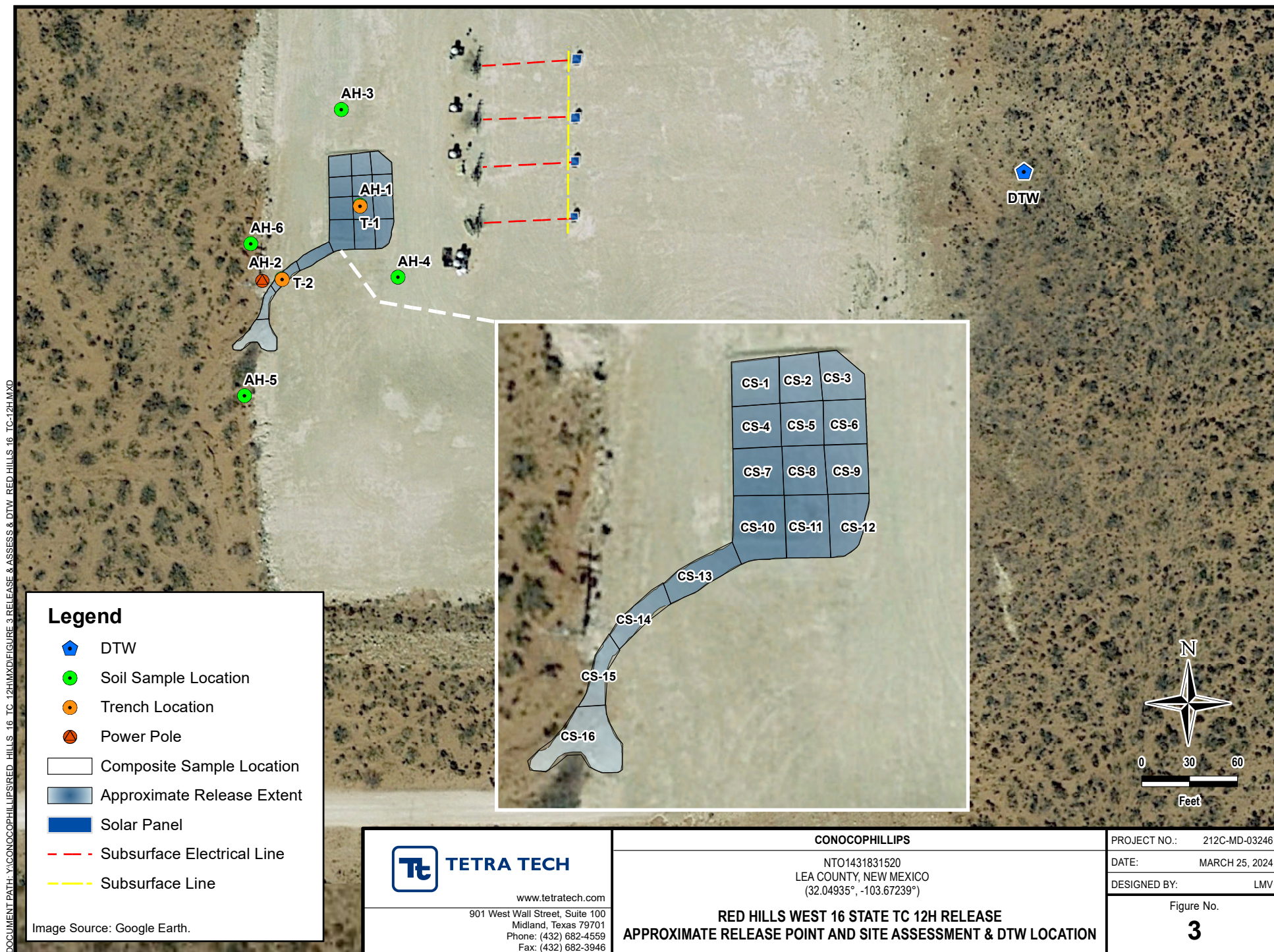
Appendices:

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

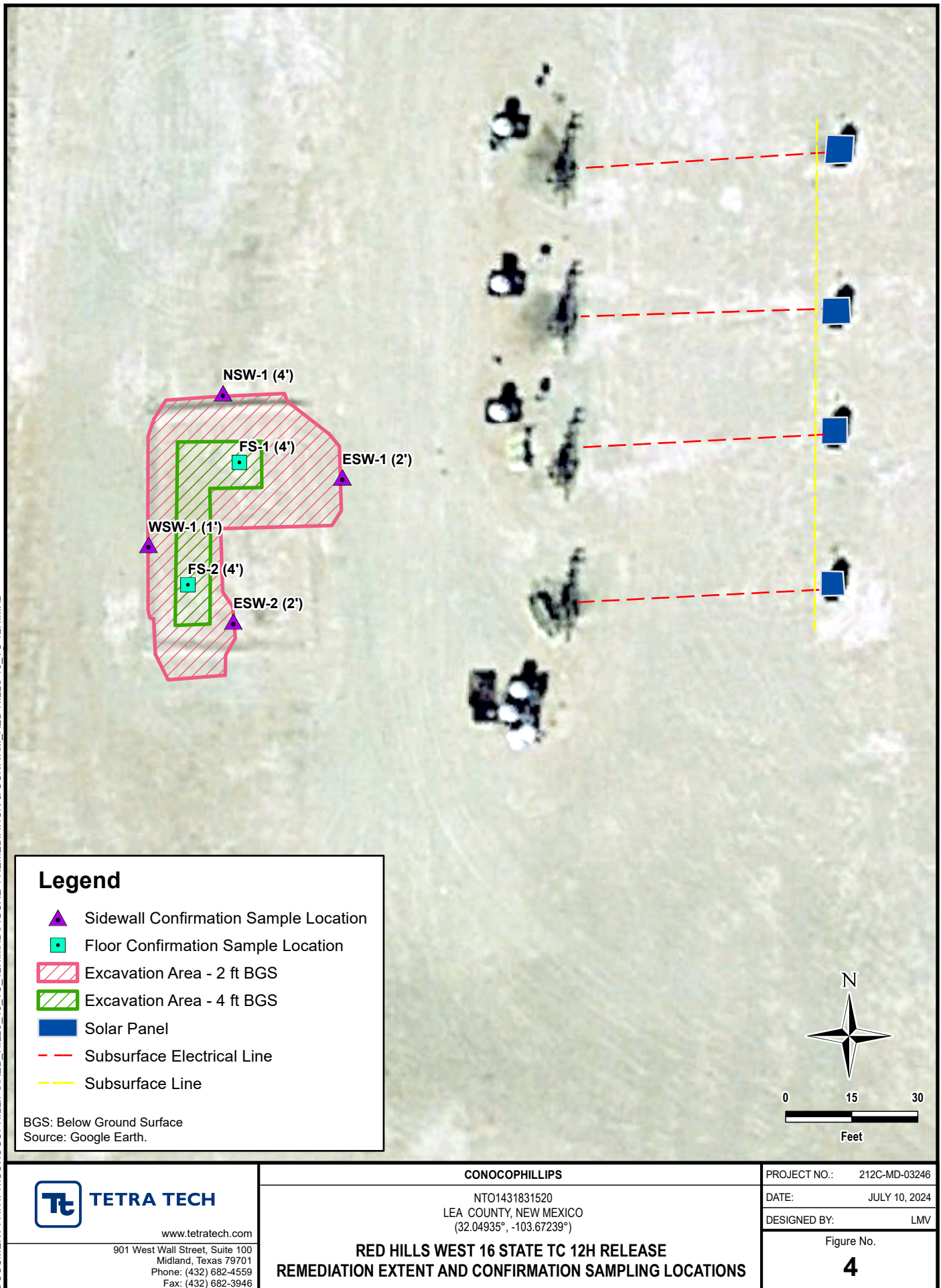
FIGURES







DOCUMENT PATH: Y:\CONOCOPHILLIPS\RED_HILLS_16_TC_12HMX\FIGURE 4 REMEDIATION & CONFIRM RED HILLS 16_TC_12H.MXD



TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- nTO1431831520
CONOCOPHILLIPS
RED HILLS WEST 16 STATE TC 12H
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51-100ft):				Chlorides ¹		BTEX ²										TPH ³									
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results Chlorides	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg		< 1,000 mg/kg	
				Chloride		Benzene								Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		Total TPH (GRO+DRO+EXT DRO)		GRO+DRO	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
VERTICAL DELINEATION																									
AH-1	10/11/2023	0-1	2,190	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.3		<10.0		12.3		12.3	
T-1	12/12/2023	0-1	-	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
		2-3	-	1,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20.9		<10.0		20.9		20.9	
		3-4	-	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
		5-6	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
AH-2	10/11/2023	0-1	1,250	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
T-2	12/12/2023	0-1	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
		2-3	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
T-3	3/12/2024	0-1	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2,090		333		2,423		2,090	
		2-3	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		73.8		<10.0		73.8		73.8	
		3-4	-	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
		5-6	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
T-4	3/12/2024	0-1	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
		2-3	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.1		<10.0		18.1		18.1	
		3-4	-	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		41.7		<10.0		41.7		41.7	
		5-6	-	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
T-5	3/12/2024	0-1	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		342		23.7		366		342	
		2-3	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		314		24.5		338.5		314	
		3-4	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		273		13.8		286.8		273	
		5-6	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
HORIZONTAL DELINEATION																									
AH-3	10/11/2023	0-1	580	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
AH-4	12/12/2023	0-1	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
AH-5	10/11/2023	0-1	85.1	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	
AH-6	10/11/2023	0-1	25.6	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0		<10.0	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL ASSESSMENT- COMPOSITE SAMPLING- nTO1431831520
CONOCOPHILLIPS
RED HILLS WEST 16 STATE TC 12H
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51-100ft):				Chlorides ¹		BTEX ²										TPH ³									
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results Chlorides	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg		< 1,000 mg/kg	
				Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)		GRO+DRO	
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
CS-1	2/27/2024	0-0.5	-	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2,910		1,530		4,440		2,910	
CS-2	2/27/2024	0-0.5	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1,760		782		2,542		1,760	
CS-3	2/27/2024	0-0.5	-	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		3,440		1,880		5,320		3,440	
CS-4	2/27/2024	0-0.5	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		7,310		3,010		10,320		7,310	
CS-5	2/27/2024	0-0.5	-	1,410		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		5,670		2,580		8,250		5,670	
CS-6	2/27/2024	0-0.5	-	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2,780		1,450		4,230		2,780	
CS-7	2/27/2024	0-0.5	-	1,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		4,700		2,070		6,770		4,700	
CS-8	2/27/2024	0-0.5	-	5,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		546		284		830		546	
CS-9	2/27/2024	0-0.5	-	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		299		176		475		299	
CS-10	2/27/2024	0-0.5	-	1,740		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1,980		1,090		3,070		1,980	
CS-11	2/27/2024	0-0.5	-	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
CS-12	2/27/2024	0-0.5	-	3,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		344		182		526		344	
CS-13	2/27/2024	0-0.5	-	2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		750		415		1165		750	
CS-14	2/27/2024	0-0.5	-	2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.8		<10.0		11.8		11.8	
CS-15	2/27/2024	0-0.5	-	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
CS-16	2/27/2024	0-0.5	-	640		<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 RRLs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL REMEDIATION- COMPOSITE SAMPLING- nTO1431831520
CONOCOPHILLIPS
RED HILLS WEST 16 STATE TC 12H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results	Chloride ¹		BTEX ²										TPH ³							
			Chloride			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q	(GRO+DRO+EXT DRO)	mg/kg
		Closure Criteria for Reclamation 0-4' bgs:		600 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		--		100 mg/kg	
		Closure Criteria for Soils >4' bgs (51-100ft):		10,000 mg/kg		< 10 mg/kg		--		--		--		< 50 mg/kg		--		--		--		2,500 mg/kg	
NSW-1	6/17/2024	-	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		518		261		779	
NSW-1 (4') *	6/19/2024	-	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
ESW-1	6/17/2024	-	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		122		86.1		208	
ESW-1 (2') *	6/19/2024	-	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
ESW-2	6/17/2024	-	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		601		300		901	
ESW-2 (2') *	6/19/2024	-	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
WSW-1	6/17/2024	-	-	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		127		91		218	
WSW-1 (1') *	6/19/2024	-	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
FS-1	6/17/2024	2	-	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		176		40.8		217	
FS-1 (4') *	6/19/2024	4	-	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
FS-2	6/17/2024	2	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		109		19.3		128	
FS-2 (4') *	6/19/2024	4	-	1,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of Site RRALs approved by the NMOCD.

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

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

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

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL BACKFILL
CONOCOPHILLIPS
PULLEY PIT (32.268370, -103.521267)
LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³							
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		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		
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

HOBBS OCD 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.

RECEIVED
- Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : <i>Conoco Phillips Company</i>	Contact : <i>Dennis Martinez</i>
Address : <i>3300 N. A St. Midland, TX</i>	Telephone No. : <i>432-741-1818</i>
Facility Name : <i>H&P Rig 486</i>	Facility Type : <i>Drilling Rig</i>
Surface Owner	Mineral Owner
API No. <i>30-025-41706</i>	

LOCATION OF RELEASE

Unit Letter	Section <i>16block</i>	Township <i>T26S</i>	Range <i>R32E</i>	Feet from the	North/South Line	Feet from the	East/West Line	County <i>Lea</i>
-------------	---------------------------	-------------------------	----------------------	---------------	------------------	---------------	----------------	----------------------

Lea County, New Mexico Section 16 Block T26S R32E

Latitude : *32 02' 57.40N"* Longitude : *103 40' 18.97"*

NATURE OF RELEASE

Type of Release : <i>Spill to ground</i>	Volume of Release : <i>15 bbl</i>	Volume Recovered: <i>14bbl</i>
Source of Release : <i>Frac Pit</i>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>11/5/2014 @2230 hrs.</i>	<i>11/5/2014 @2235hrs.</i>
By Whom? <i>Tommy Turner</i>	Date and Hour : <i>11/06/2014 @0930 hrs</i>	
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.*

None

Describe Cause of Problem and Remedial Action Taken.*

On Tuesday, November 05, 2014 at approximately 2230 hrs. while transferring drilling mud from the rigs active pit system to storage frac tank, the frac tank was over filled causing approximately 15 bbl of drilling mud (Brine Water) to spill onto the ground. Pumping was stopped and remediation began immediately.

Describe Area Affected and Cleanup Action Taken.*

The area affected was just off the caliche drilling pad where a small stream of fluid flowed. Roustabout company was dispatched to location with a loader to pick up soiled area which was hauled off to disposal site.

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>Dennis R. Martinez</i>		OIL CONSERVATION DIVISION  Approved by Environmental Specialist:	
Printed Name: <i>Dennis R. Martinez</i>			
Title: <i>Well Site Safety Rep</i>	Approval Date: <i>11-14-14</i>	Expiration Date: <i>1-14-15</i>	
E-mail Address: <i>Dennis.R.Martinez@contractor.conocophillips.com</i>	Conditions of Approval: <i>Sub Sample 1 per Del Norte 2, include analysis per NMOCD guide. Submit form C-141 by 1-14-15</i>		Attached <input type="checkbox"/> <i>IRP-3424</i>
Date: <i>11/07/2014</i>	Phone: <i>432-688-9012</i>	<i>ognd 217812</i> <i>11/01/14 31831520</i> <i>11/01/14 31831724</i>	

* Attach Additional Sheets If Necessary

Incident ID	nTO1431831520
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	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.

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

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

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

Incident ID	nTO1431831520
District RP	
Facility ID	
Application ID	

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

Printed Name: Moises H. Cantu Garcia Title: Senior Environmental Engineer

Signature: Moises H Cantu Garcia Date: 4/10/2024

email: Moises.H.CantuGarcia@conocophillips.com Telephone: 432-688-6090

OCD Only

Received by: _____ Date: _____

Incident ID	nTO1431831520
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Moises H. Cantu Garcia Title: Senior Environmental Engineer
Signature: Moises H Cantu Garcia Date: 4/10/2024
email: Moises.H.CantuGarcia@conocophillips.com Telephone: 432-688-6090

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 332967

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 332967
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved. Variance request to sample every 400 square feet approved. Submit a report via the OCD permitting portal by August 19, 2024.	4/15/2024

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: Moises H Cantu 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



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7770 Jefferson Street NE, Suite 410
Albuquerque, New Mexico 87109
Tel 505.254.1115 Fax 505.254.1116
www.swca.com

October 12, 2023

TO: Ethan Ortega, Division Director & Archaeologist, New Mexico State Land Office, Santa Fe, New Mexico

FROM: SWCA Environmental Consultants

SUBJECT: Completion of an Archaeological Records Management Section (ARMS) Review for the Red Hills West State 16 W1 Release Remediation Project on New Mexico State Land Office (NMSLO) lands in Lea County, NM

Company Ref No: None-Provided

PROJECT DESCRIPTION:

Tetra Tech, Inc. has requested that SWCA Environmental Consultants (SWCA) conduct an Archaeological Resources Management Section (ARMS) review for an inadvertent release in Lea County, New Mexico. The proposed project is on lands managed by the New Mexico State Land Office (NMSLO) approximately 45.86 kilometers (28.5 miles) southwest of Jal, NM in T26S R32E, Section 16.

A literature and file search were conducted on October 10, 2023, using the New Mexico Cultural Resources Information System (NMCRIS) online database which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register listed properties. Other sources reviewed include the BLM GLO Records web site, <http://www.glorerecords.blm.gov>, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed. The review was conducted for the Area of Potential Effect (APE), consisting of the inadvertent release area and a 50-foot buffer, and 500 meters (m) (0.31 mile) surrounding the APE. The land the proposed project is located on is part of the June 21, 1934: State Grant-School Sec Patent (48 Stat. 1185) patented on January 4, 1960.

Recommendation:

The project area and surrounding 500 m (0.31 mile) have been subject to fourteen (14) cultural resource surveys, nine (9) of which are qualifying. Three (3) previously recorded sites are located outside of the project area but within the 500-m (0.31-mile) search buffer. The project area is entirely located on NMSLO-managed lands and is covered by two (2) qualifying survey conducted within the last ten years (NMCRIS Activity Numbers 131674 and 127646) and is located on previously disturbed land from oil and gas construction activities. SWCA recommends the completion of an ARMS letter to satisfy the requirements of release remediation. All remediation work will remain within the previously qualifying survey area and the approved existing disturbance. If cultural materials are identified during ground disturbing activities, work must stop and the NMSLO must be contacted.

Information regarding the findings can be found in Table 1-2 and Figure 1.

A handwritten signature in dark ink, appearing to read "Paisley DeFreese", is written over a faint, circular official stamp.

Archaeologist
Paisley DeFreese
Attached: (1) Review Results, (1) ARMS Map



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7770 Jefferson Street NE, Suite 410
 Albuquerque, New Mexico 87109
 Tel 505.254.1115 Fax 505.254.1116
 www.swca.com

Archaeological Resources Management Section (ARMS) Review Results

Table 1. Cultural surveys within 500 meters (0.32 mile) of proposed project.

NMCRIS No.	Performing Organization	Date of Investigation	Acres Surveyed	Sites Visited
7348	Pecos Archaeological Consultants	9/27/1984	96.96	0
12016	New Mexico Archaeological Services, Inc	8/18/1983	61	1
21396	Pecos Archaeological Consultants	4/22/1988	145.45	2
63533	Lone Mountain Archaeological Services	1/19/1999	16900	69
119095	Southern NM Archaeological Services	9/9/2010	42.11	0
127646	Lone Mountain Archaeological Services	3/13/2013	5469.59	35
131009	Lone Mountain Archaeological Services	7/2/2014	13.77	0
131674	Lone Mountain Archaeological Services	9/5/2014	603.75	5
134730	Statistical Research, Inc.	11/6/2015	96.25	0
139387	Boone Archaeological Consultants, LLC.	11/23/2017	17.22	0
145866	SWCA Environmental Consultants	9/22/2019	1484.03	4
148686	Boone Archaeological Consultants, LLC.	8/26/2021	14.33	0
149643	Boone Archaeological Consultants, LLC.	1/21/2022	2.89	0
152596	Boone Archaeological Consultants, LLC.	3/23/2023	10.56	0



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Table 2. Cultural resources within 500 meters (0.32 mile) of the proposed project area.

*Redacted

*Redacted

Figure 1. NMCRIS screenshot showing location of the proposed Red Hills West State 16 W1 Release Remediation Project area (blue polygon) with 500 m (0.31 mile) buffer area (blue circle). Previously conducted investigations are brown and yellow polygons, and previously recorded sites are orange polygons.

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 753551
File Nbr: C 04787

Nov. 29, 2023

CHRISTINA LLULL
TETRA TECH ON BEHALF OF CONOCOPHILLIPS
8911 N CAPITAL OF TX HWY #2310
AUSTIN, TX 78759

Greetings:

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

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

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

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

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe):
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

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

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

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 11/27/2023	Requested End Date: 11/27/2024
--	--------------------------------

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: Tetra Tech on behalf of ConocoPhillips	Name:
Contact or Agent: check here if Agent <input type="checkbox"/> Christian Llull	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: 8911 N Capital of Texas Hwy #2310	Mailing Address:
City: Austin	City:
State: Zip Code: Texas 78759	State: Zip Code:
Phone: 512-338-1667 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): Christian.Llull@tetratech.com	E-mail (optional):

OSE DTI NOV 17 2023 PM 1:13

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 07/12/22

File No.: C-4787	Trn. No.: 753851	Receipt No.: 246390
Trans Description (optional): EXPL		
Sub-Basin: CUB	PCW/LOG Due Date: 11-29-24	

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

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- ☐ NM State Plane (NAD83) (Feet) ☐ UTM (NAD83) (Meters) ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)
- ☐ NM West Zone ☐ Zone 12N
- ☐ NM East Zone ☐ Zone 13N
- ☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4787 Pod1 Red Hills - DTW	32.049375°	-103.671003°	Unit Letter D, Section 15, Township 26S, Range 32E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

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

Well is on land owned by: Bureau of Land Management

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

Approximate depth of well (feet): 55

Outside diameter of well casing (inches):

Driller Name: John Scarborough

Driller License Number: WD1188

OSE DTI NOV 17 2023 PM 1:13

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Drilling temporary monitoring well to determine depth to groundwater.

The well will be installed on a right of way (ROW) on BLM land. BLM was emailed on 11/13/2023 for access approval. BLM approved the DTW location on 11/13/2023 (attached).

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.: C-4787

Trn No.: 753551

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

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

I, We (name of applicant(s)), CHRISTIAN M. LLULL

Print Name(s)

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



Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

DATE: NOV 17 2023

This application is:

☒ approved

☐ partially approved

☐ denied

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

Witness my hand and seal this 29th day of November 20 23, for the State Engineer,

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

By: K. Parekh
Signature

Kashyap Parekh
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.: C-4787

Trn No.: 753551

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04787 POD1 must be completed and the Well Log filed on or before 11/28/2024.

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

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 11/29/2023	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

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

Witness my hand and seal this 29 day of Nov A.D., 2023

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

By: K. Parekh
KASHYAP PAREKH

Trn Desc: C 04787 POD1

File Number: C 04787
Trn Number: 753551

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

OFFICIAL RECEIPT NUMBER: 2 - 46390 DATE: 11/17/23 FILE NO.: Lea
TOTAL: 5.00 RECEIVED: Five + 1.00 DOLLARS CHECK NO.: 7878 CASH:
PAYOR: Tetra Tech ADDRESS: 8911 N. Capital of Texas Hwy #2310 CITY: Austin STATE: TX
ZIP: 78759 RECEIVED BY: AR

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

A. Ground Water Filing Fees

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

B. Surface Water Filing Fees

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

C. Well Driller Fees

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

D. Reproduction of Documents

- @ 0.25¢ \$
- Map(s) @ \$3.00 \$

E. Certification

F. Other

G. Comments:

Mail

All fees are non-refundable.



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

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

December 1, 2023

Tetra Tech Inc
8977 N Capital Of Texas Hwy 32310
Austin Texas 78759

RE: Well Plugging Plan of Operations for well no. C-4787-POD1

Greetings:

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

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

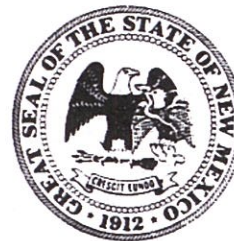
Sincerely,

A handwritten signature in blue ink, appearing to read "S. Davis", written over a horizontal line.

Samantha Davis
Water Resources Professional III



WELL PLUGGING PLAN OF OPERATIONS



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

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

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

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

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-4787-PD1

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

Mailing address: 8911 N Capital of Texas Hwy #2310 County: _____

City: Austin State: Texas Zip code: 78759

Phone number: 512-338-1667 E-mail: Christian.Llull@tetrattech.com

III. WELL DRILLER INFORMATION:

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

New Mexico Well Driller License No.: WD1188 Expiration Date: 3/31/2024

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

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

1) GPS Well Location: Latitude: 32.049375° deg, -103.67100° min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

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

Completion of monitoring period

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

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

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

6) Depth of the well: 55 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Sch. 40 PVC
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: _____
☒ a well screen or perforated pipe, state the screened interval(s): 45-55
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? _____
- 11) Was the well built with surface casing? NA If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:

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

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

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

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

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

Tremie Type 1 Cement-Bentonite Slurry from bottom of boring to ground level.
- 2) Will well head be cut-off below land surface after plugging? NA Temporary

VI. PLUGGING AND SEALING MATERIALS:

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

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 8.97
- 4) Type of Cement proposed: Type 1 Cement-Bentonite
- 5) Proposed cement grout mix: 5 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
 x mixed on site

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

N/A

- 8) Additional notes and calculations:

N/A

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

N/A

VIII. SIGNATURE:

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



Signature of Applicant

11/13/2023

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☐ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 1st day of December, 2023



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

By:

Samantha Davis

Water Resources Professional III

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			2
Theoretical volume of grout required per interval (gallons)			8.97
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			5
Mixed on-site or batch-mixed and delivered?			on-site
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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

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



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

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

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

Permittee: Tetra Tech on behalf of ConocoPhillips
 NMOSE Permit Number: C-4787-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4787-POD1	2 inch	55	Unknown	32.049375°	103.671003°

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

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment of the 2-inch diameter (I.D.) casing is approximately 8.97 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 55 feet below ground surface (b.g.s.). The Well Plugging Plan of Operation submitted indicates cement grout will be used for the plugging for the interval, at a minimum, from ~~55~~ to 0 feet below ground surface.
3. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement **PLUS** 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio.
4. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

5. Placement of the sealant within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column.
6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions

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

Witness my hand and seal this 1st day of December 2023

Mike A. Hamman, P.E. State Engineer



By: _____

A handwritten signature in blue ink, appearing to read "S. Davis", is written over a horizontal line.

Samantha Davis
Water Resources Professional III

Chavira, Lisbeth

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Monday, November 13, 2023 1:27 PM
To: Llull, Christian
Cc: Chavira, Lisbeth
Subject: Re: [EXTERNAL] Access Request - Red Hills West State 16 W1 11H Release (nJXK1608134606)

You don't often get email from sjtaylor@blm.gov. [Learn why this is important](#)

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

BLM authorizes the installation of a temporary bore to determine DTW.

Sincerely,

Shelly J Taylor

Assistant Field Manager
Lands & Minerals - Acting

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

Direct 575.627.0250
Mobile 575.200.0614
sjtaylor@blm.gov



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Monday, November 13, 2023 10:26 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Access Request - Red Hills West State 16 W1 11H Release (nJXK1608134606)

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

Shelly,

Tetra Tech is assisting ConocoPhillips with assessment activities associated with an older historical release (occurred on March 12, 2016) on BLM land.

The **Red Hills West State 16 W1 11H Release** was the result of two ruptured gasket seals, approximately 1.6 barrels (bbls) of crude oil and 5 bbls of produced water, of which 1.5 bbls of oil and 4.5 bbls of produced water were recovered. It was an on pad release footprint.

In order to complete the assessment and the submittal process we are requesting verbal approval to install a Depth to water borehole (DTW) off a right of way (ROW) on BLM Land, just to the east of the Pad. KMZ file attached and screengrab below.

To comply with the New Mexico Office of State Engineer (OSE) permit requirements, we must include landowner approval when submitting the *Application for Permit to Drill* (WR-07). We have the application ready, we just need your approval.

Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

Red Hills West State 16 W1 11H Release

Unit Letter A, Section 16, Township 26 South, Range 32 East

Lea County, New Mexico

Incident Identification (ID) nJXK1608134606

Approximate Release Location: 32.049410°, -103.672409°

Date Release Discovered: March 12, 2016

Volume Released: Approximately 1.6 barrels (bbls) of crude oil and 5 bbls of produced water were released.
Release on Pad



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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Chavira, Lisbeth

From: OCDOnline@state.nm.us
Sent: Monday, April 15, 2024 11:23 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 332967

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To whom it may concern (c/o Christian Llull for CONOCOPHILLIPS COMPANY),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nTO1431831520, with the following conditions:

- **Work plan approved. Variance request to sample every 400 square feet approved. Submit a report via the OCD permitting portal by August 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: Monday, April 29, 2024 1:41 PM
To: Chavira, Lisbeth
Cc: Llull, Christian; Abbott, Sam; Barnes, Will; Elliott, April L.; Griffin, Becky R.; David, Deon W.
Subject: RE: (Remediation Plan) - Red Hills West 16 State TC 12H Release (nTO1431831520) - 11-5-2014 - approved



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

Lisbeth

Documentation of proposed remediation actions for the subject release incident was received from your office on April 25, 2024. 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.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.

Tami Knight, CHMM
Environmental Specialist
NMSLO SRD-ECO
505.670.1638
tknight@slo.state.nm.us
nmstatelands.org



OUT OF OFFICE NOTICE: AFTERNOON APRIL 30 AND MAY 1-6, 2024.

.....

CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is **STRICTLY PROHIBITED**. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Thursday, April 25, 2024 3:48 PM
To: SLO Spills <spills@slo.state.nm.us>
Cc: Knight, Tami C. <tknight@slo.state.nm.us>; Llull, Christian <Christian.Llull@tetrattech.com>; Abbott, Sam

<Sam.Abbott@tetrattech.com>

Subject: [EXTERNAL] (Remediation Plan) - Red Hills West 16 State TC 12H Release (nTO1431831520) - 11-5-2014

Tami:

Attached is one pdf file Work Plan Report that includes the written narrative and associated attachments regarding proposed remedial activities at the ConocoPhillips Red Hills West 16 State TC 12H Release, Incident ID nTO1431831520.

Incident ID nTO1431831520 Details:

- Release Location: 32.04935°, -103.67239°
- Site is located in Lea County, NM.
- State Trust Lands managed by NMSLO
 - Located within active oil and gas lease ID LG36200000, which is listed under EOG Resources Inc.
- Date of Release: 11/5/2014
- According to the C-141, a release of approximately 15 barrels (bbls) of drilling mud (brine water) to spill onto the ground, pumping was stopped, and remediation began immediately.
 - Approximately 14 of the 15 bbls of the released fluids were recovered.
- The Site is located in a medium karst area.

Site Characterization and Assessment:

- As the available water level information for the site is from a well farther than ½-mile away from the Site, ConocoPhillips elected to drill a boring to verify depth to groundwater.
 - A depth to groundwater boring was installed on January 8, 2024.
 - This set the site RRALs to 10,000 mg/kg for chloride and 2,500 mg/kg for TPH.
- On October 10-11, 2023, Tetra Tech conducted a soil assessment to delineate the release area.
 - Three (3) hand auger borings (AH-3, AH-5, and AH-6) were installed to 1-foot bgs around the perimeter of the release extent to achieve horizontal delineation.
 - Two (2) hand auger borings (AH-1 and AH-2) were installed within the apparent release extent to achieve vertical delineation. Hand auger refusal was met at roughly 1-foot bgs; therefore, vertical delineation was not achieved.
- Tetra Tech remobilized to the site on December 12, 2023.
 - Tetra Tech installed two (2) trenches (T-1 and T-2) to 6' bgs and 3' bgs and an additional hand auger (AH-4).
 - There were no analytical results which exceeded the Site RRALs.
- Tetra Tech submitted a Revised Characterization and Closure Request on January 26, 2024.
- The NMOCD rejected the Closure Request on February 2, 2024, with the following comments:
 - *"Closure denied. Horizontal delineation must meet the requirements of the reclamation standards [19.15.29.13](#) NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Confirmation soil samples must consist of five-point composite samples from the side wall and base and individual grab samples from any wet or discolored areas, representing a surface area of no more than 200 ft2 unless otherwise approved. Submit a report via the OCD permitting portal by 06/07/2024."*
- On February 27, 2024, Tetra Tech personnel mobilized to conduct the five-point composite confirmation sampling activities at the Site. Sixteen (16) five-point composite samples were collected within the release area; each point was collected at the surface, and each five-point composite sample is representative of 200 square feet.
- Tetra Tech remobilized to the Site on March 12, 2024, to conduct additional sampling to vertically delineate the identified TPH exceedances from the February 2024 sampling event.
 - Three (3) trenches (T-3 through T-5) were each installed to 6 feet bgs using a backhoe to evaluate the vertical extents in the areas of CS-1 through CS-7 and CS-10.
 - Analytical results for Trench T-3 exceeded the Site RRAL of 1,000 mg/kg for GRO+DRO with a concentration of 2,090 mg/kg.

Proposed Remedial Action:

- Based on the analytical results, ConocoPhillips proposes to remove impacted material to a maximum depth of 2 feet bgs.
 - The estimated volume of material to be remediated is approximately 116 cubic yards.
- A Remediation Work Plan dated April 12, 2024, was submitted to the NMOCD.
 - NMOCD approved the Work Plan on April 15, 2024 (approval attached).
- ConocoPhillips proposes to begin remedial activities at the Site within 90 days of NMOCD and SLO 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, please let me know.

Thank you,

Lisbeth Chavira | Geoscientist

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

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

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TETRA TECH

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 353526

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 353526
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1431831520
Incident Name	NT01431831520 RED HILLS WEST 16 STATE TC #012H @ 30-025-41706
Incident Type	Release Other
Incident Status	Remediation Plan Approved
Incident Well	[30-025-41706] RED HILLS WEST 16 STATE TC #012H

Location of Release Source	
Site Name	RED HILLS WEST 16 STATE TC #012H
Date Release Discovered	11/14/2014
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,559
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/17/2024
Time sampling will commence	02:00 PM
Please provide any information necessary for observers to contact samplers	Contact: Lisbeth Chavira 512-596-8201
Please provide any information necessary for navigation to sampling site	GPS Location: 32.04935,-103.67239

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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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 353526

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 353526
	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.	6/12/2024

Chavira, Lisbeth

From: Chavira, Lisbeth
Sent: Wednesday, June 12, 2024 4:12 PM
To: eco@slo.state.nm.us
Cc: Knight, Tami C.; Poole, Nicholas; Llull, Christian
Subject: Red Hills West 16 State TC 12H Release (nTO1431831520) - Notice of Confirmation Sampling

Good afternoon,

This email is regarding the Red Hills West State 16 W1 12H Release (nTO1431831520).

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

Red Hills West 16 State TC 12H Release**ConocoPhillips****Lea County, New Mexico****DOR: 11/5/2014****INCIDENT ID: nTO1431831520****Approximate Release Point: 32.04935°, -103.67239°**

Remediation activities are beginning at the site Monday, June 17, 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 Monday June 17, 2024.

Thank you,

Lisbeth Chavira | Geoscientist

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

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**TETRA TECH**

APPENDIX C

Site Characterization Data

212C-MD-03246		TETRA TECH		LOG OF BORING Red Hills West State DTW				Page 1 of 1	
Project Name: Red Hills West State 16 W1 12H									
Borehole Location: GPS Coordinates: 32.049398°, -103.671311°				Surface Elevation: 3226 ft					
Borehole Number: Red Hills West State DTW				Borehole Diameter (in.): 8		Date Started:		Date Finished: 1/8/2024	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5													-SP- SAND: Brown, loose, dry, fine- to coarse-grained, with abundant sub-angular to sub-rounded caliche	2	
											-GP- CALICHE GRAVEL: Brown, loose, dry, fine- to coarse-grained, abundant sub-angular to sub-rounded caliche fragments		6		
10											-GP- CALICHE GRAVEL: Brown, loose, dry, fine- to coarse-grained, with fine-grained tan sand		14		
15											-GP- CALICHE GRAVEL: Brown, loose, dry, fine- to coarse-grained, with coarse-grained pale brown sand		19		
20											-SP- SAND: Pale brown to light brown, loose, dry, fine-grained, with gravel-sized caliche fragments		24		
25											-SM- SAND: Light brown, loose, dry, fine-grained, with pea gravel-sized caliche fragments		39		
30											-SP- SAND: Light brown, loose, dry, fine-grained, with gravel-sized caliche fragments		44		
35											-SP- SAND: Light brown, loose, dry, fine-grained, with pea gravel-sized caliche fragments		57		
40															
45															
50															
55															
Bottom of borehole at 57.0 feet.															

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an approximate value obtained from Google Earth data.
Logger: Colton Bickerstaff	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling

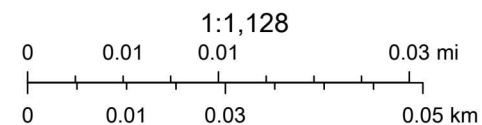
OCD Karst Areas



10/11/2023, 10:29:15 AM

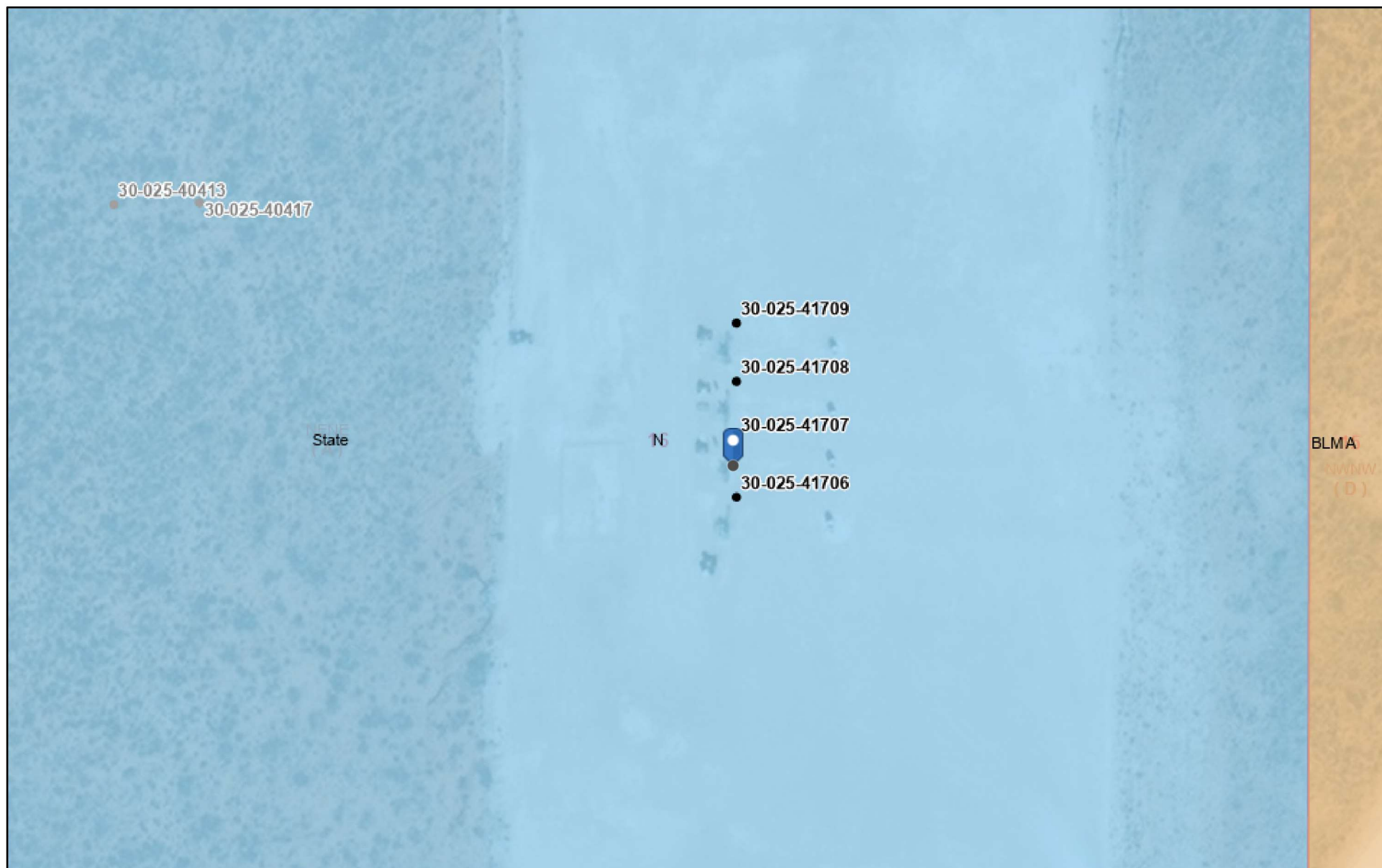
Karst Occurrence Potential

Medium



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

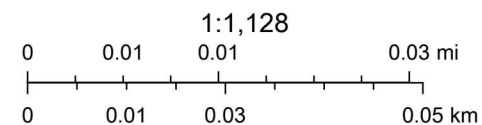
OCD Land Ownership



10/11/2023, 10:23:26 AM

Wells - Large Scale Land Ownership Mineral Ownership

- Oil, Active
- Oil, Cancelled
- BLM
- S
- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.



U.S. BLM, Maxar, Microsoft, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE,

New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette



103°40'39"W 32°3'13"N



Legend

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

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

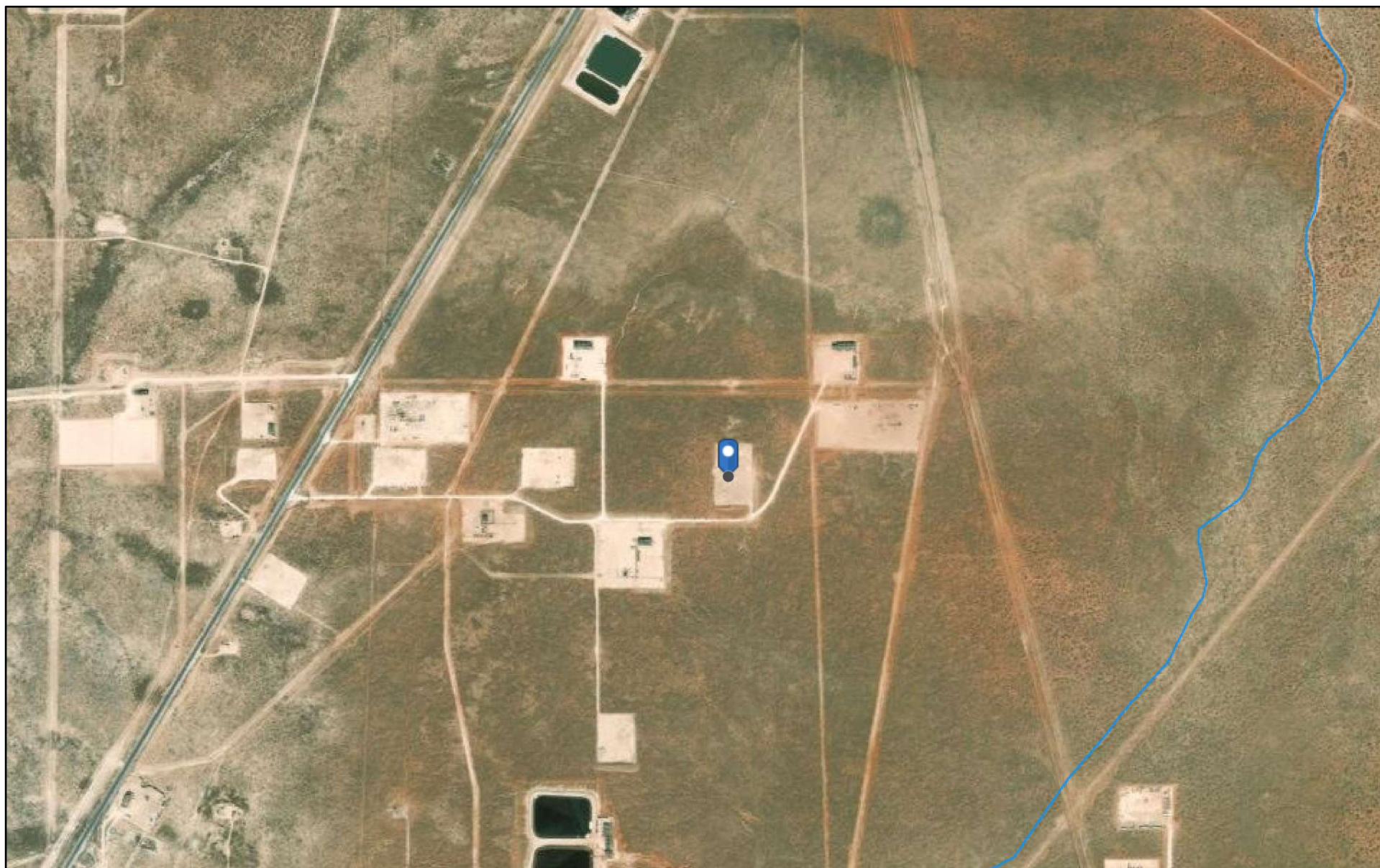


This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/11/2023 at 10:00 AM 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.

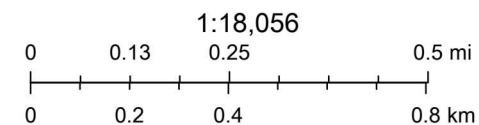
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

OCD Waterbodies



10/11/2023, 10:41:53 AM

— OSE Streams



Esri, HERE, Garmin, IPC, Maxar, NM OSE



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03595 POD1	4	2	3	21	26S	32E	624423	3544045

x

Driller License:	1654	Driller Company:	NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:				
Drill Start Date:	09/30/2013	Drill Finish Date:	09/30/2013	Plug Date:
Log File Date:	10/29/2013	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:	6.00	Depth Well:	280 feet	Depth Water: 180 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	160	200	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	200	240

x

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 9:04 AM

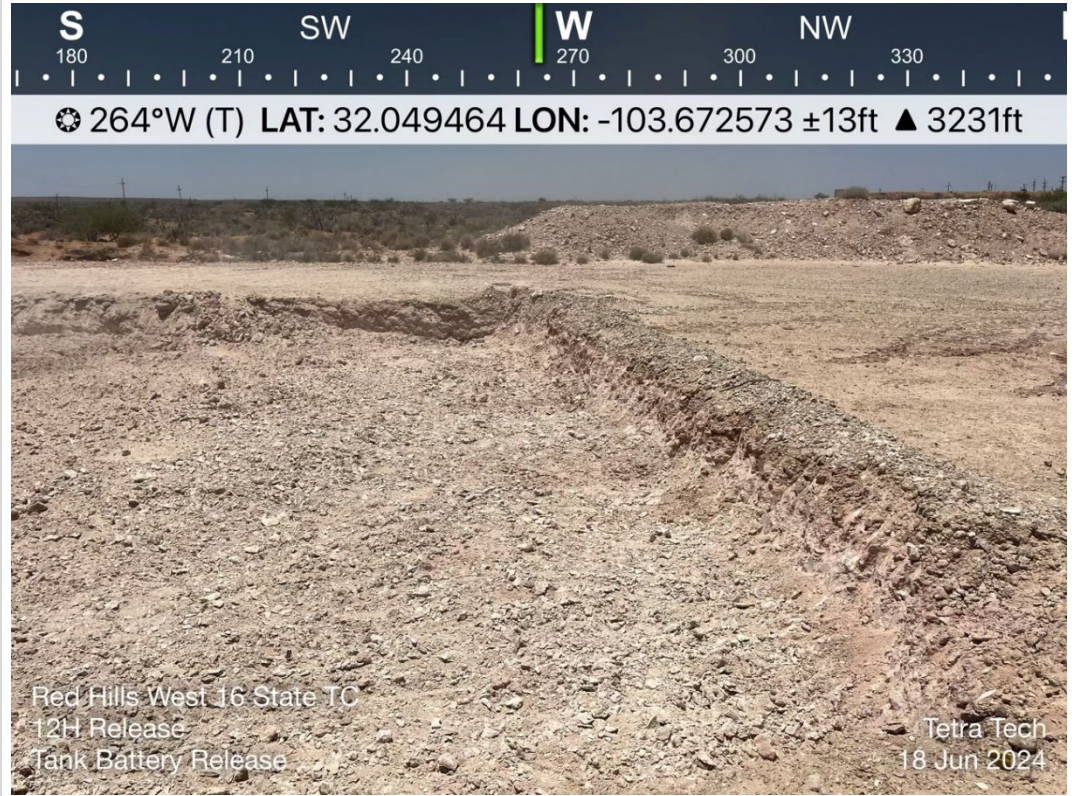
POINT OF DIVERSION SUMMARY

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View east of open excavation progress. View of production equipment.	1
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View west of open excavation progress.	2
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View west-southwest of open excavation progress and nearby power pole.	3
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/20/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View south-southwest of open excavation progress and nearby power pole.	4
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/20/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View east of backfilled excavation.	5
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/21/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View south-southwest of backfilled excavation.	6
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/21/2024

W
270

NW
300

N
330

NE
30

E
60

90

☼ 2°N (T) LAT: 32.049250 LON: -103.672680 ±13ft ▲ 3239ft

Red Hills West 16 State TC
12H Release

Tetra Tech
21 Jun 2024

TETRA TECH, INC. PROJECT NO. 212C-MD-03246	DESCRIPTION	View north of backfilled excavation.	7
	SITE NAME	RED HILLS WEST 16 STATE W1 12H Release	6/21/2024

APPENDIX E

Waste Manifests



Customer Copy

WEIGHT TICKET

Ticket # 251645

Start: 08/18/2024 10:29 AM

End: 08/18/2024 10:38 AM

Batch: Laden

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	10.01	\$0.14
Hauler: McKabb Partners				
Driver: Victor Manzana				
Lease: Red Hill West 16 State 10				
Well: 0124				
API #: N/A				
County, State: LEA (NY)				
API #: 3002541708				
Client Company: Mani Polices Cart.				
Trig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 14				
HF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS	0	1	10.00	\$0.00
Paint Filter - PASS	0	1	10.00	\$0.00
NORM - PASS	0	1	10.00	\$0.00
Additional Photos	0	1	10.00	\$0.00
13		0.0 lbs	10.01	\$0.14

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work

7/17

Customer: ConcoPhillips Company
Driver: Brian Work

SUBTOTAL ---> \$0.14
TAX ---> \$0.01
ROUNDING ---> \$-0.00
TOTAL ---> \$0.15

18 0.0 lbs \$0.01 \$0.14

Additional Photos	0	1	\$0.00	\$0.00
NORM - PASS	0	1	\$0.00	\$0.00
Paint Filter - PASS	0	1	\$0.00	\$0.00
42S Testing - PASS	0	1	\$0.00	\$0.00

42S Test: Pass
42S Test (Small): Pass
JOM Count: 14
JOM: DRY
Truck Type: Dump Truck
Trucking Co Ticket: N/A
Trig Name & Number: N/A
Client Company Name: Morales Garcia
API #: 3002541708
County, State: LEA (NM)
REF #: N/A
Well: 0124
Lease: Red Hills West 16 State 10
Driver: Victoria Garcia
Tallent: Michael

14 0 14 \$0.01 \$0.14
Continued Soil

GROSS	TARE	NET	PRICE	AMOUNT
-------	------	-----	-------	--------

WEIGHT TICKET
Ticket #: 251647
Start: 06/18/2024 10:15 AM
End: 06/18/2024 10:38 AM
Browl, Adam





Customer Copy

-----WEIGHT TICKET-----
Ticket # 251648
Start: 06/18/2024 10:13 AM
End: 06/18/2024 10:44 AM
B. Brown, Adam

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	10.01	\$0.18
Hauler: N/A				
Driver: Lumar Rodriguez				
Lease: Red Hills Red west 16 State TC				
Well: 0124				
AFE #: N/A				
County, States LEA (NM)				
API #: 8102541708				
Client Company Name: Andrew Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
JOM: Durd				
JOM Count: 18				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
NORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
22	0.0 lbs		10.01	\$0.18

SUBTOTAL ----> \$0.18
TAX ----> \$0.01
ROUNDING ----> \$0.00
TOTAL ----> \$0.19

Customer: ConocoPhillips Company
Driver: Lumar Work

Lumar Rdz



Customer Copy

WEIGHT/TICKET

Ticket # 251680

Start: 06/18/2024 12:12 PM

End: 06/18/2024 12:13 PM

B/W: W.L. adan

QTY	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	\$0.01	\$0.14
Hauler: 4x4				
Driver: [illegible]				
Road: Mud Hills West 16 State 10				
Well: 0124				
AFE #: N/A				
County, State: LEA (NY)				
API #: 3302541708				
Client Company: Mari Moises Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: CUYD				
JOM Count: 14				
Test Results: Pass				
2S Test: Pass				
H2O Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00

13	0.0 lbs	\$0.01	\$0.14
----	---------	--------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 251678

Start: 06/15/2024 12:17 PM

End: 06/18/2024 12:14 PM

B/cw/1.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	\$0.01	\$0.14

Hauler: Mckabb

Driver: Victoria Hernandez

Lease: Red Hills West 16 State 10

Well: 012H

APE #: N/A

County, State: LEA (NM)

API #: 3002541706

Client Company Name: Mosies Garcia

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

JOM: DUYD

JOM Count: 14

RF Test Results: Pass

H2S Test: Pass

H2S Testing - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

Paint Filter - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

NORM - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

Additional Photos

0	1	\$0.00	\$0.00
---	---	--------	--------

10	0.0 lbs	\$0.01	\$0.14
----	---------	--------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

-----WEIGHT TICKET-----

Ticket # 251681
 Start: 06/18/2024 12:17 PM
 End: 06/18/2024 12:20 PM
 By: cwl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
13	0	13	\$0.01	\$0.18
Hauler: N/A Driver: Lumar Rodriguez Lease: Red Hills West 18 State 10 Well: Q12H AFE #: N/A County: Spotted LEA (KY) API #: 8002341708 Client Company: Manti Masies Garcia Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Belly Dumps JOM: Durd JOM Count: 18 PF Test Results: Pass H2S Test: Pass H2S Testing - PASS Paint Filter - PASS NORM - PASS Additional Photos 22 0.0 lbs \$0.01 \$0.18				

SUBTOTAL ----> \$0.18
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.19

Customer: Orbit Construction
 Driver: Mike Kolt

Lumar Rdz



Customer Copy

-----WEIGHT TICKET-----

Ticket # 251713

Start: 06/18/2024 01:41 PM

End: 06/18/2024 01:50 PM

By: cal.lisance

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	10.01	\$0.14
Hauler: Monab				
Driver: Victor Martinez				
Lease: Red Hill West 18 STC				
Well: 0124				
County, State: LEA (NV)				
API #: 300254108				
Manifest #: 07				
Client Company: Mena Mosies Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Cured				
JOM Count: 14				
PF Test Result: Pass				
42S Test: Pass				
42S Testing -- PASS				
0	0	1	10.00	\$0.00
Paint Filter -- PASS				
0	0	1	10.00	\$0.00
NORM -- PASS				
0	0	1	10.00	\$0.00

17	0.0 lbs	10.01	\$0.14
----	---------	-------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company
Driver: Garen Work



Customer Copy

WEIGHT TICKET

Ticket # 251715

Start: 08/15/2024 01:48 PM

End: 08/15/2024 01:54 PM

By: cwl.lisanda

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil		1	\$0.01	\$0.01
Hauler: Melvado Driver: Victoria Hernandez Lease: Red Hills West 16 S TC Well: 012H County: States LEA (NV) API #: 5002341708 Manifest #: 08 Client Company Name: Moses Garcia Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Dump Truck JOM: Durd JOM Count: 14 PF Test Result: Pass H2S Test: Fail				

H2S Testing - PASS	14	0	14	\$0.00	\$0.00
--------------------	----	---	----	--------	--------

Paint Filter - PASS	0	1	\$0.00	\$0.00
---------------------	---	---	--------	--------

NORM - PASS	0	1	\$0.00	\$0.00
-------------	---	---	--------	--------

Additional Photos	0	1	\$0.00	\$0.00
-------------------	---	---	--------	--------

19	0.0 lbs	10.00	\$0.01
----	---------	-------	--------

SUE TOTAL ----> \$0.01

TAX ----> \$0.00

ROUNDING ----> \$0.00

TOTAL ----> ~~\$0.01~~

14

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 251716

Start: 08/18/2024 01:49 PM

End: 08/18/2024 01:51 PM

B. J. P. L. Adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	0	18	\$0.01	\$0.18
Hauler: Mkvabb				
Driver: Lmar Rodriguez				
Lease: Red Hills West 18 State 10				
Well: 0124				
APE #: N/A				
County, State: LBA (NY)				
API #: 0002541706				
Client Company Name: Moises Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
JOM: CUYD				
JOM Count: 18				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
22	0.0 lbs		\$0.01	\$0.18

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 251756

Start: 06/18/2024 03:48 PM

End: 06/18/2024 03:56 PM

By: cwl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	\$0.01	\$0.14
Hauler: Mckabb				
Driver: Victor Manzano				
Lease: Red Hills West 18 State 10				
Well: 0124				
API #: N/A				
County: State EDOY (NM)				
API #: 5002541708				
Client Company: Mck: Moses Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Trucks				
JOM: Durd				
JOM Count: 14				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
18	0.0 lbs		\$0.01	\$0.14

SUBTOTAL ----> \$0.14
 TAX ----> \$0.01
 ROUNDING ----> \$-0.00
 TOTAL ----> \$0.15

Customer: ConocoPhillips Company
 Driver: Karan Work



Customer Copy

-----WEIGHT TICKET-----

Ticket # 251760

Start: 08/18/2024 03:19 PM

End: 08/18/2024 04:14 PM

By: [Signature]

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
12	0	12	\$0.01	\$0.12
Hauler: McNabb				
Driver: Victoria Paridea				
Lease: Red Hills West 18 State 10				
Well: 012M				
AFE #: N/A				
County, State, LEA (KY)				
API #: 0002541708				
Client Company Name: Moises Garcia				
Rig Name & Number: 4/4				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
JOM: Durd				
JOM Count: 12				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing -- PASS				
1	0	1	\$0.00	\$0.00
Paint Filter - PASS				
1	0	1	\$0.00	\$0.00
NORM - PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00
12	0.0 lbs	12	\$0.01	\$0.12

SUBTOTAL ----> \$0.12

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.13

Customer: ConocoPhillips Company

Driver: Aaron Work

VHT



Customer Copy

WEIGHT TICKET

Ticket # 252038

Start: 06/19/2024 04:13 PM

End: 06/19/2024 04:13 PM

By: cwl.lisanda

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
1	0	1	\$0.01	\$0.01
Hauler: McNabb				
Driver: Victoria Harina				
Lease: Rad Hill west 15 STD				
Well: N/A				
AFE #: N/A				
County, State: LEA (NM)				
API #: 3002541708				
Manifest #: N/A				
Trucking Co Ticket #: N/A				
Truck Type: End Dump				
JOM: Curyd				
JOM Count: 15				
RF Test Result: Pass				
H2S Test: Pass				
H2S Testing -- PASS				
1	0	1	\$0.00	\$0.00
Paint Filter -- PASS				
1	0	1	\$0.00	\$0.00
Additional Photos				
1	0	1	\$0.00	\$0.00

4	0.0 lbs	\$0.00	\$0.01
---	---------	--------	--------

SUE TOTAL ----> \$0.01

TAX ----> \$0.00

ROUNDING ----> \$0.00

TOTAL ----> \$0.01

12

Customer: ConocoPhillips Company

Driver: Karen Work

VH



Customer Copy

WIGHT TICKET

Ticket # 252023

Start: 08/18/2024 03:15 PM

End: 08/19/2024 03:42 PM

By: OWL Lisenca

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
13	0	13	10.01	\$0.16
Hauler: M&Mabb				
Driver: Victor Menzies				
Lease: Red Hill West 1B STD				
Well: N/A				
APE #: N/A				
County, State: LEA (NY)				
API #: 3002341708				
Client Company Name: Andrew Garcia				
Rig Name & Number: 012H				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dump				
JOM: Durd				
JOM Count: 16				
4P Test Result: Pass				
42S Test: Pass				
42S Testing - PASS				
1	0	1	10.00	\$0.00
Paint Filter - PASS				
1	0	1	10.00	\$0.00
WORM - PASS				
1	0	1	10.00	\$0.00
Additional Photos				
1	0	1	10.00	\$0.00
20	0.0 lbs	20	10.01	\$0.16

SUBTOTAL ----> \$0.16

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.17

12

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 252207

Start: 06/20/2024 12:00 PM

End: 06/20/2024 12:00 PM

By: KJLgeraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	\$0.01	\$0.14

Hauler: McNabb

Driver: Victor Manzano

Lease: Red Hills West 18 State 10

Well: 012H

AFE #: N/A

County, State: LEA (NM)

API #: 3002541708

Manifest #: N/A

Client Company Name: Poises Cart.

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

JOM: Durd

JOM Count: 14

RF Test Result: Pass

H2S Test: Pass

H2S Testing - PASS

1	0	1	\$0.00	\$0.00
---	---	---	--------	--------

Paint Filter - PASS

1	0	1	\$0.00	\$0.00
---	---	---	--------	--------

NORM - PASS

1	0	1	\$0.00	\$0.00
---	---	---	--------	--------

Additional Photos

1	0	1	\$0.00	\$0.00
---	---	---	--------	--------

18	0.0 lbs	10.01	\$0.14
----	---------	-------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work



Customer Copy

WEIGHT TICKET

Ticket # 252219
Start: 06/20/2024 01:13 PM
End: 06/20/2024 01:35 PM
By: twl.geraldine

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	0	14	\$0.01	\$0.14

Hauler: MCVabb

Driver: Victor Menzano

Lease: Red Hills West 16 State 10

Well: 0124

AFE #: N/A

County, State: LEA (NM)

API #: 3002541708

Manifest #: N/A

Client Company Name: Moises Cart.

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

JOM: Durd

JOM Count: 14

PF Test Result: Pass

42S Test: Pass

42S Testing - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

Paint Filter - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

NORM - PASS

0	1	\$0.00	\$0.00
---	---	--------	--------

Additional Photos

0	1	\$0.00	\$0.00
---	---	--------	--------

13	0.0 lbs	\$0.01	\$0.14
----	---------	--------	--------

SUBTOTAL ---> \$0.14

TAX ---> \$0.01

ROUNDING ---> \$-0.00

TOTAL ---> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/15/2024	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)

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	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 BTX	<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

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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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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 Project Manager: Christina 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: Petra Tech Attn: Christina Lundy Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
Relinquished By: Andrew Garcia Date: 15 Feb 24 Time: 1500 Relinquished By:				Received By: Shedrick Wiley Date: 15 Feb 24 Time: 1200 Received By:				REMARKS: Pulley Pit (32.1832640, -104.0605004)																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 0.2 Corrected Temp. °C:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) SE				Turnaround Time: Standard <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #140 Correction Factor 0°C:				Observed Temp. °C:			



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

June 18, 2024

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS WEST 16 STATE TC #12H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/17/24 16:46.

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: NSW - 1 (H243517-01)

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	06/18/2024	ND	1.80	90.2	2.00	9.11	
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 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	06/18/2024	ND	480	120	400	10.5	

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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	518	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	261	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: ESW - 1 (H243517-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	1.80	90.2	2.00	9.11		
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/18/2024	ND	480	120	400	10.5	

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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	122	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	86.1	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: ESW - 2 (H243517-03)

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	06/18/2024	ND	1.80	90.2	2.00	9.11		
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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	06/18/2024	ND	480	120	400	10.5		

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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	601	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	300	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: WSW - 1 (H243517-04)

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	06/18/2024	ND	1.80	90.2	2.00	9.11		
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 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	432	16.0	06/18/2024	ND	480	120	400	10.5	

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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	127	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	91.3	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: FS - 1 (H243517-05)

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	06/18/2024	ND	1.80	90.2	2.00	9.11		
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 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	256	16.0	06/18/2024	ND	480	120	400	10.5	

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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	176	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	40.8	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/17/2024	Sampling Date:	06/17/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE TC #12H RE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03246	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

Sample ID: FS - 2 (H243517-06)

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	06/18/2024	ND	1.80	90.2	2.00	9.11		
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/18/2024	ND	448	112	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	06/18/2024	ND	192	96.2	200	1.67	
DRO >C10-C28*	109	10.0	06/18/2024	ND	210	105	200	4.37	
EXT DRO >C28-C36	19.3	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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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

[illegible]



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

June 20, 2024

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS WEST 16 STATE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NSW - 1 (4') (H243623-01)

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	06/20/2024	ND	2.14	107	2.00	4.00	
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501	
Total BTEX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 1 (2') (H243623-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	2.14	107	2.00	4.00		
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: ESW - 2 (2') (H243623-03)

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	06/20/2024	ND	2.14	107	2.00	4.00	
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501	
Total BTEX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/20/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

TETRA TECH
 LISBETH CHAVIRA
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 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WSW - 1 (1') (H243623-04)

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	06/20/2024	ND	2.14	107	2.00	4.00	
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501	
Total BTEX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/20/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 (4') (H243623-05)

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	06/20/2024	ND	2.14	107	2.00	4.00		
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	06/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 06/19/2024
 Reported: 06/20/2024
 Project Name: RED HILLS WEST 16 STATE
 Project Number: 212C-MD-03246
 Project Location: LEA COUNTY, NM

Sampling Date: 06/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 (4') (H243623-06)

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	06/20/2024	ND	2.14	107	2.00	4.00		
Toluene*	<0.050	0.050	06/20/2024	ND	2.26	113	2.00	1.68		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	2.24	112	2.00	0.185		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	6.89	115	6.00	0.501		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	06/20/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	183	91.5	200	4.36	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**Page 9 of 9

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

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

QUESTIONS

Action 367648

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	367648
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1431831520
Incident Name	NT01431831520 RED HILLS WEST 16 STATE TC #012H @ 30-025-41706
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Well	[30-025-41706] RED HILLS WEST 16 STATE TC #012H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RED HILLS WEST 16 STATE TC #012H
Date Release Discovered	11/14/2014
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Frac Tank Drilling Mud/Fluid Released: 15 BBL Recovered: 14 BBL Lost: 1 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	367648
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 04/12/2024
--	--

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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 3

Action 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:	217817
	Action Number:	367648
	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	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 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)	5840
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	10320
GRO+DRO	(EPA SW-846 Method 8015M)	7310
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/03/2024
On what date will (or did) the final sampling or liner inspection occur	06/07/2024
On what date will (or was) the remediation complete(d)	06/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	1559
What is the estimated volume (in cubic yards) that will be reclaimed	116
What is the estimated surface area (in square feet) that will be remediated	1559
What is the estimated volume (in cubic yards) that will be remediated	116

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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District IV

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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 4

Action 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:	217817
	Action Number:	367648
	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: 04/12/2024
<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 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 367648
	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 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number: 367648
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	353526
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/17/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1559

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	1781
What was the total volume (cubic yards) remediated	216
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	1781
What was the total volume (in cubic yards) reclaimed	216
Summarize any additional remediation activities not included by answers (above)	Initial confirmation soil sampling analytical results associated with all confirmation sampling locations exceeded the Total TPH reclamation limit of 100, mg/kg, and one location (ESW-1) also exceeded the chloride reclamation limit of 600 mg/kg. The excavation floors were deepened, and sidewalls expanded in these areas, and iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-additional excavation.

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: 07/26/2024
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QUESTIONS, Page 7

Action 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:	217817
	Action Number:	367648
	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	1781
What was the total volume of replacement material (in cubic yards) for this site	216
<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)	07/26/2030
Summarize any additional reclamation activities not included by answers (above)	Backfilled areas were restored to the original condition. This release footprint was within an active pad, so these areas were not seeded.
<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@tetrattech.com Date: 07/26/2024

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QUESTIONS, Page 8

Action 367648

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 367648
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
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.	

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CONDITIONS

Action 367648

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	367648
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.	7/31/2024
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.	7/31/2024
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.	7/31/2024