



April 12, 2024

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

**Re: Revised Closure Request
ConocoPhillips
Red Hills West State 16 W1 11H Release
Unit Letter A, Section 16, Township 26 South, Range 30 East
Lea County, New Mexico
Incident ID# nJXK1608134606**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a historical release that occurred from at the Red Hills West State 16 W1 11H well (API No. 30-025-41707). 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 32.049410°, -103.672409°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, on March 12, 2016, two ruptured gasket seals resulted in the release of approximately 1.6 barrels (bbls) of oil and 5 bbls of produced water, of which 4.5 bbls of produced water and 1.5 bbls of oil were recovered. The release extent is presented in Figure 3. The immediate action taken was to depressurize line, replace seals, and return equipment back to service. The NMOCD received the initial C-141 on March 16, 2016, and subsequently assigned the release the Incident ID nJXK1608134606. 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 site 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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Revised Closure Request
April 12, 2024

ConocoPhillips

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 Land Management (BLM) General Land Office Records, which include land patent and general land office survey data.

In the review, SWCA found that 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, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 NMAC. The Site is in an area of medium karst potential. The site characterization data is included in Appendix C.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter radius (approximately 1/2 mile) of the site. According to the NMOSE, 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-WATER 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 9, 2024, ConocoPhillips contracted a licensed well drilling subcontractor to drill a groundwater determination borehole (DTW) to 55 feet bgs along the lease road 68 meters east of the Red Hills West State 16 W1 11H 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 4. The 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

Revised Closure Request
April 12, 2024

ConocoPhillips

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 determination 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

2016 CORRECTIVE ACTION PLAN

ConocoPhillips prepared a Corrective Action Plan (CAP) dated April 6, 2016, which was submitted to NMOCD for approval. According to the CAP, ConocoPhillips personnel were onsite on March 14, 2016 to visually assess the release. Based on the visual assessment, ConocoPhillips proposed to excavate the release extent to 6 inches below surface grade (bgs). Following excavation activities, a composite sample from the bottom of the excavation would be taken and field tested for chlorides and organic vapors. If field data indicate that the confirmation sample would not achieve Site RRALs, then the excavation would be deepened until field data indicate constituents are below Site RRALs. Once excavation activities are completed and confirmed with the floor sample, all excavated soils would be taken to an NMOCD-approved facility for disposal.

The CAP was received by NMOCD on April 7, 2016, and conditionally approved. The condition of the approval was that the confirmation floor samples be collected as discrete samples rather than composite. A copy of the CAP is available in the NMOCD online incident files.

2020 VISUAL SITE INSPECTION AND CLOSURE REQUEST

Tetra Tech, on behalf of ConocoPhillips, conducted a records review and a visual inspection of the release. On July 6, 2020, Tetra Tech personnel were onsite to evaluate the current conditions at the Site. The formerly impacted area was identified from the description in the C-141 and was corroborated by the photographic documentation contained in the CAP. The following were observations made during the records review and visual Site Inspection:

- De minimis surficial staining typical of active oil and gas well operations was observed in the release vicinity during the July 2020 visual Site inspection.
- The de minimis staining noted did not correspond to the footprint and areas denoted in the CAP.
- Given the historical nature of this incident and the ongoing oil and gas operations conducted at the Site, it is unlikely that the staining observed is related to this 2016 release.
- Per the CAP, the release footprint was restricted to active oil and gas production areas on the well pad.
- Although detailed documentation regarding remediation is not available, given the existence of an approved corrective action plan and that evidence of the release was not observed during the July 2020 Site inspection, the deduction is that remediation had been conducted at the Site.

Based on these findings, Tetra Tech completed a Closure Letter Report dated October 15, 2020, and submitted the report to NMOCD as part of the ACO submittals via the online file sharing platform CentreStack. A copy of the Closure Letter Report is available in the NMOCD online incident files.

Revised Closure Request
April 12, 2024

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2023 NMOCD REJECTION

The Closure Letter Report was rejected by NMOCD on April 18, 2023, with the following comments:

- *"Closure for this incident is not approved.*
- *The OCD requires that this release be Remediated according to the 04/07/2016 NMOCD approved Corrective Action Plan. If it is believed that the remediation has taken place the NMOCD will require confirmation samples including analytical results (lab tested) A revised closure report should be resubmitted by 07/17/2023."*

An extension request for this incident was submitted to the NMOCD on September 22, 2023. The extension was approved on September 25, 2023, for a due date of December 1, 2023. Regulatory correspondence is included in Appendix B.

2023 SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech personnel were initially onsite on October 10-11, 2023, to conduct assessment activities at the Site. Four (4) hand auger borings (AH-1 through AH-4) were installed to 1-foot bgs inside and around the perimeter of the release to determine current concentrations. 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 three (3) trenches (T-1 through T-3) to a maximum depth of 6 feet bgs using a backhoe to evaluate the vertical extents of the release footprint. An additional three (3) hand auger borings (AH-5 through AH-7) were installed to the west, south and east of the release extent to 1-foot bgs to delineate the horizontal extent of the release. Trench locations T-1 through T-3 were installed near the locations of AH-1, AH-2, and AH-4. Assessment sampling locations from the October and December 2023 sampling events are presented in Figure 3. Photographic documentation of the Site is included in Appendix D.

A total of sixteen (16) soil samples were collected from the seven (7) borings and three (3) trenches and sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via Method SM4500, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Tetra Tech, on behalf of the responsible party ConocoPhillips, notified the NMOCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using a Notification of Sampling (C-141N) application on December 7, 2023.

SUMMARY OF RESULTS

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.*
- *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.*

Revised Closure Request
April 12, 2024

ConocoPhillips

- *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. A copy of the NMOCD rejection is found in Appendix B.

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 CONFIRMATION SAMPLING RESULTS

On February 28, 2024, Tetra Tech personnel mobilized to conduct the five-point composite sampling activities at the Site. Four (4) five-point composite samples (CS-1 through CS-4) 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 as shown in Figure 5. The release area is approximately 644 square feet.

A total of four (4) five-point composite samples were collected per sample and sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via Method SM4500, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Tetra Tech, on behalf of the responsible party ConocoPhillips, notified the OCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using a Notification of Sampling (C-141N) application on February 26, 2024. A copy of the notification is included in Appendix B.

SUMMARY OF RESULTS

The laboratory analytical results from the February 2024 assessment are summarized in Table 2. There were no analytical results which exceeded the Site RRALs for any of the analyzed constituents. Additionally, horizontal and vertical delineation of the release were achieved as a result of the November 2023 and January 2024 assessment activities.

CONCLUSION

A total of four (4) five-point composite samples were collected from the approximate release area footprint. All analytical results associated with 2023 and 2024 assessment results were below the Site RRALs; therefore, no further remediation of the on-pad release footprint is required. Based on the site characterization, the remaining soils on the production lease pad meet the closure criteria of Table I of 19.15.29.12 NMAC. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of any impact within the lease pad area shall take place once the Site is no longer being used for oil and gas operations. Therefore, reclamation of the soils located within the confines of the Red Hills West State pad will be completed upon the abandonment of the Red Hills West State wells.

Based on the above, ConocoPhillips respectfully requests closure for this release. Final reclamation and restoration of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer

Revised Closure Request
April 12, 2024

ConocoPhillips

being used. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 596-8201.

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



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

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

Revised Closure Request
April 12, 2024

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

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

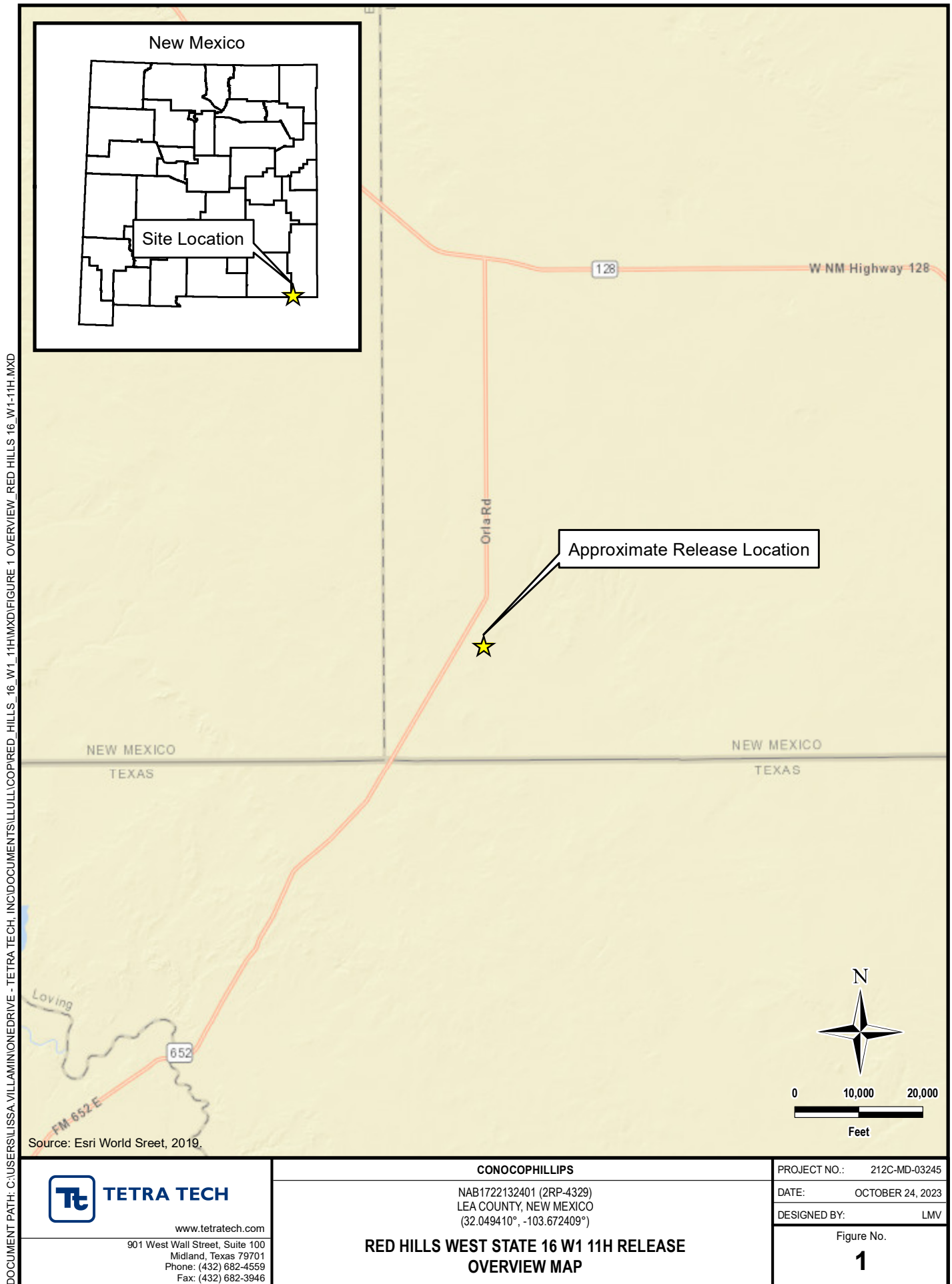
Tables:

- Table 1 – Summary of Analytical Results – 2023 Soil Assessment
- Table 2 – Summary of Analytical Results – 2024 Soil Confirmation Composite Sampling

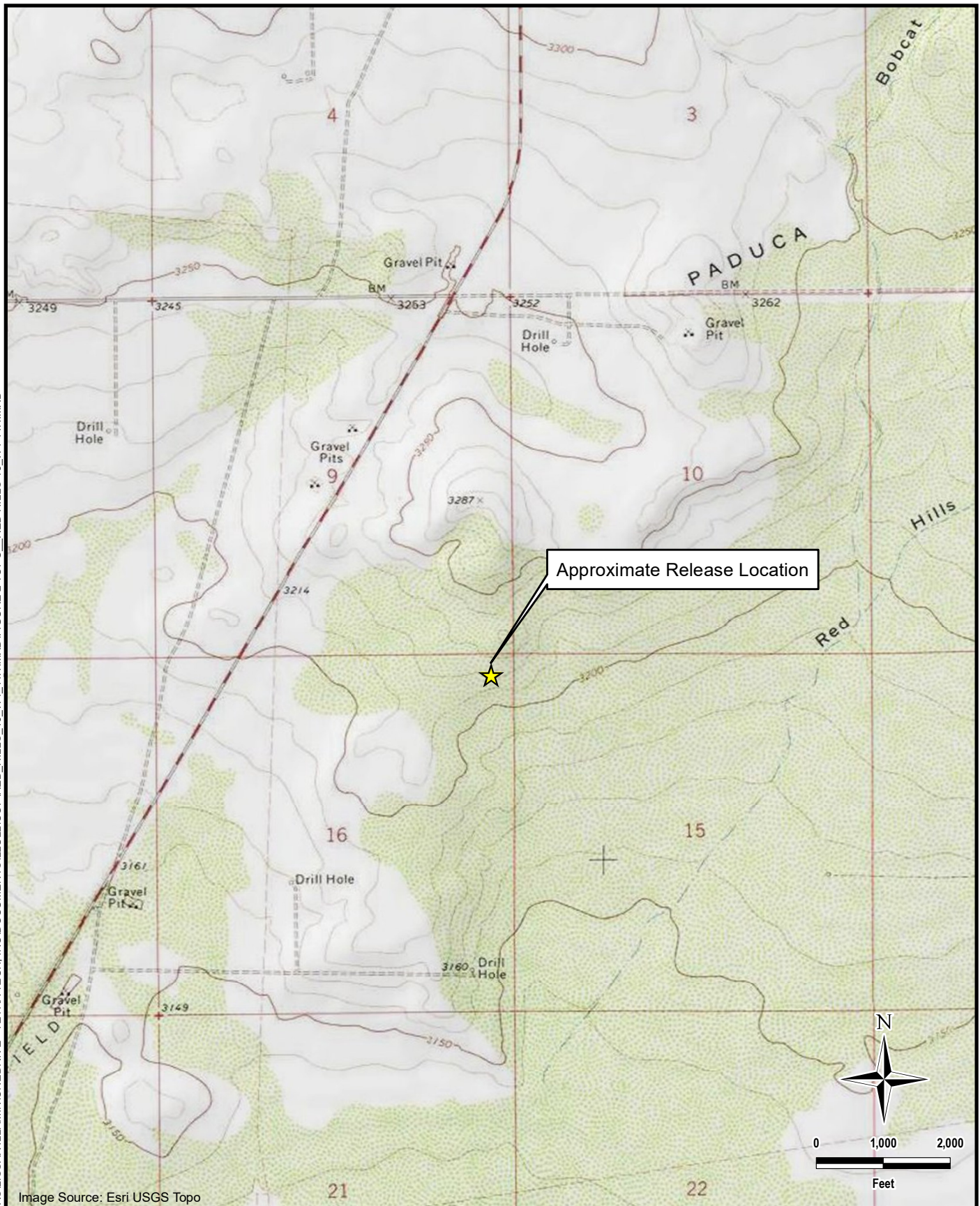
Appendices:

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

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH\INC\DOCUMENTS\ILLUSTRATIONS\RED HILLS - 16_W1_11H.MXD

**TETRA TECH**

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CONOCOPHILLIPS

NJXK1608134606
LEA COUNTY, NEW MEXICO
(32.049410°, -103.672409°)

**RED HILLS WEST STATE 16 W1 11H RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03245

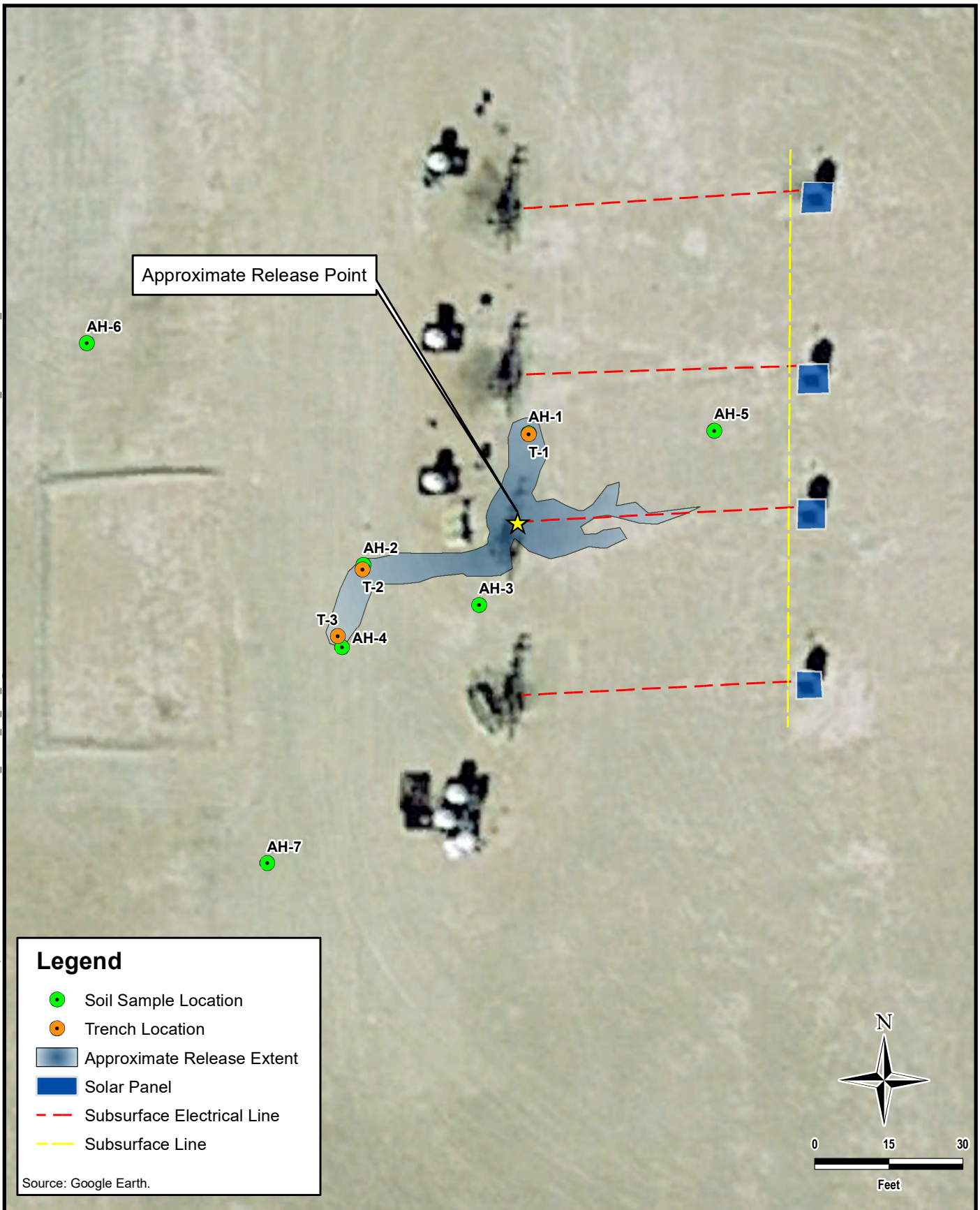
DATE: OCTOBER 24, 2023

DESIGNED BY: LMV

Figure No.

2

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH, INC\DOCUMENTS\ILLUSTRATIONS\COPIED_HILLS_16_W1_11HMXD\FIGURE 3 APPROX. RELEASE & INITIAL ASSESS - RED HILLS 16_W1_11H.MXD



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Phone: (432) 682-4559
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CONOCOPHILLIPS

NJXK1608134606
LEA COUNTY, NEW MEXICO
(32.049410°, -103.672409°)

**RED HILLS WEST STATE 16 W1 11H RELEASE
APPROXIMATE RELEASE EXTENT AND INITIAL SITE ASSESSMENT**

PROJECT NO.: 212C-MD-03245

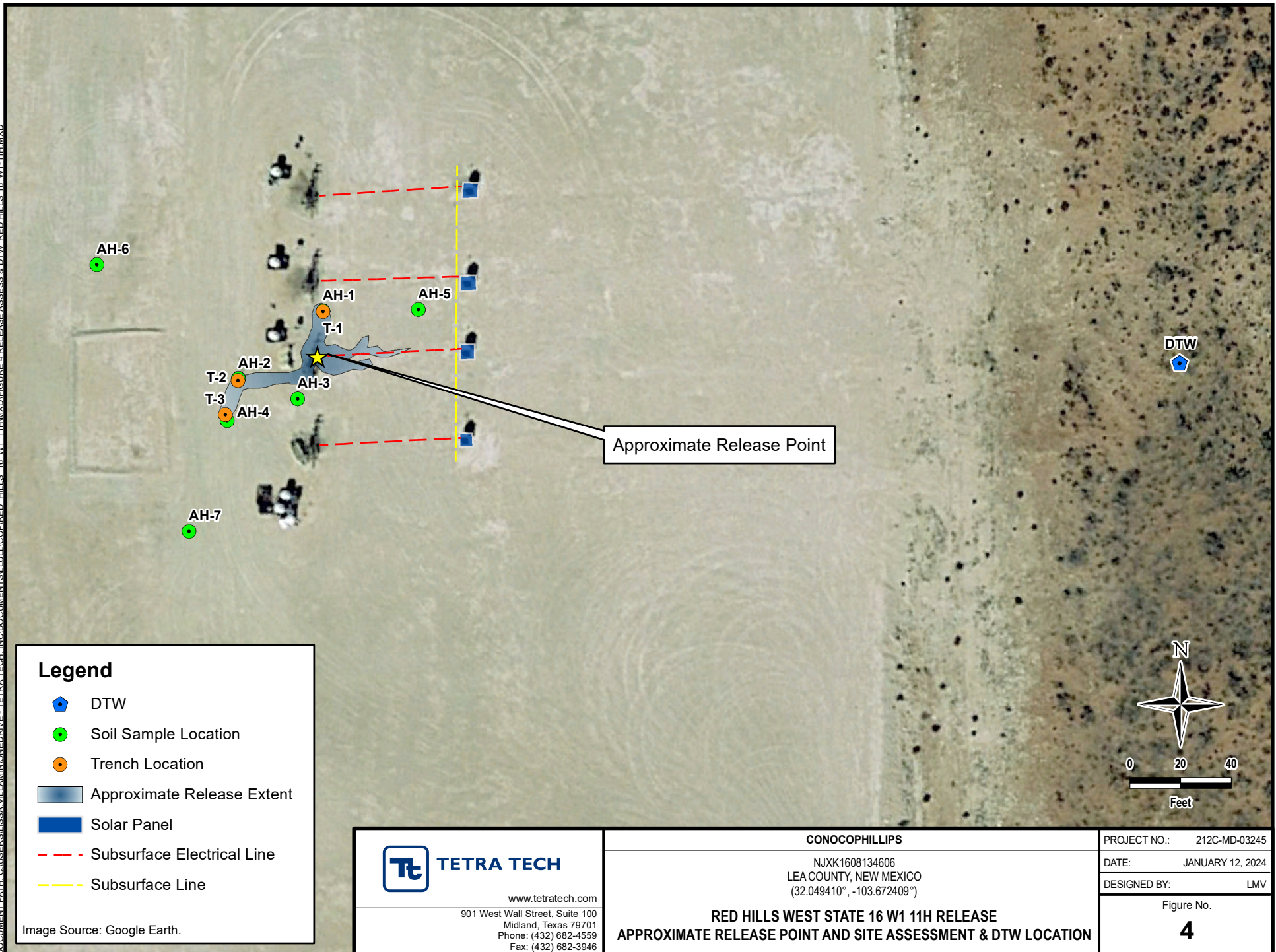
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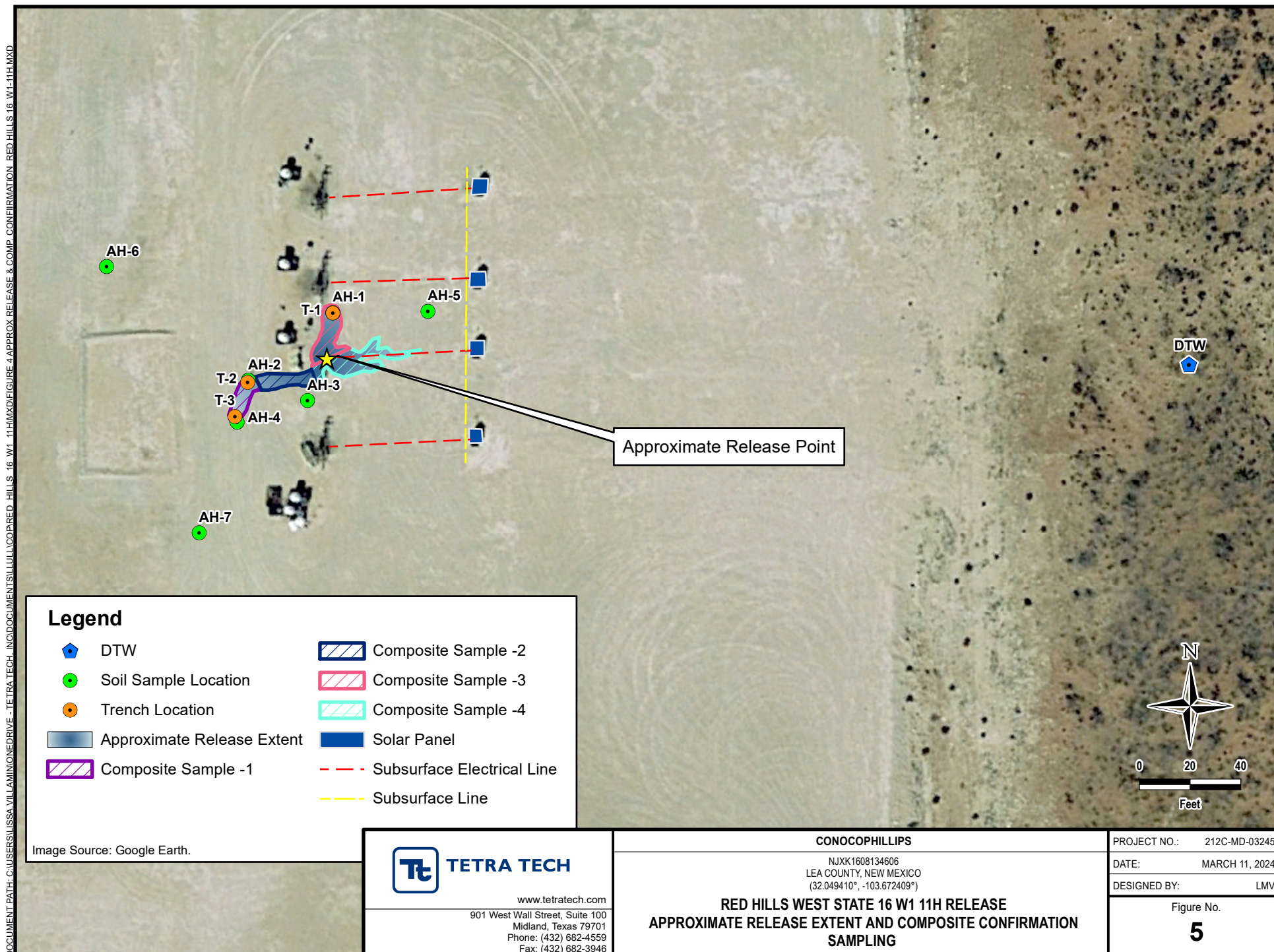
DESIGNED BY: LMV

Figure No.

3

DOCUMENT PATH: C:\USERS\ISSA.VILLAMONEDRIVE\TETRA TECH\INC\DOCUMENTS\11HMX\FIGURE 4 RELEASE ASSESS & DTW RED HILLS 16 W1 11H.MXD





TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- nJXK1608134606
CONOCOPHILLIPS
RED HILLS WEST STATE 16W 11H
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51-100 ft):			Chlorides ¹		BTEX ²										TPH ³							
			< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg	
Sample ID	Sample Date	Sample Depth Interval	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
			ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q			
VERTICAL DELINEATION																						
AH-1	10/11/2023	0-1	2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
T-1	12/12/2023	0-1	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		2-3	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		3-4	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-2	10/11/2023	0-1	2,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
T-2	12/12/2023	0-1	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		23.8		<10.0		23.8	
		2-3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-4	10/11/2023	0-1	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
T-3	12/12/2023	0-1	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
		2-3	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.4		<10.0		11.4	
		3-4	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.5		<10.0		10.5	
		5-6	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
HORIZONTAL DELINEATION																						
AH-3	10/11/2023	0-1	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-5	12/12/2023	0-1	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-6	12/12/2023	0-1	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	
AH-7	12/12/2023	0-1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0	

NOTES:

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

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL ASSESSMENT- COMPOSITE SAMPLING- njxk1608134606
CONOCOPHILLIPS
RED HILLS WEST STATE 16W 11H
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51-100 ft):			Chlorides ¹		BTEX ²										TPH ³								
			< 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
Sample ID	Sample Date	Sample Depth Interval	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)		GRO+DRO
			ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q				
		CS-1	2/28/2024	0-0.5	4,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		76.0		19.0		95.0
CS-2	2/28/2024	0-0.5	7,330		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		249		100		349		249
CS-3	2/28/2024	0-0.5	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.7		<10.0		31.7		31.7
CS-4	2/28/2024	0-0.5	5,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		170		68.4		238.4		170

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

APPENDIX A

C-141 Forms

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Philip Lee
Address: 3695 Highway 285, Orla TX	Telephone No. 432-238-1050
Facility Name: Red Hills West State 16 W1 11H	Facility Type: Wellhead
Surface Owner: NMOCD	Mineral Owner: NMOCD
API No. 30-025-41707	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	265	32E		North		West	LEA

Latitude N32°2'10.86" Longitude W103° 40' 19.718"

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 6.6 BBLS	Volume Recovered: 6 BBLS
Source of Release: Ruptured gasket seals near wellhead (Lat/Long of well).	Date and Hour of Occurrence 03/12/2016 8:00 am	Date and Hour of Discovery 03/12/2016 8:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes, NMOCD	
By Whom? Philip Lee	Date and Hour: 03/14/2016 09:45 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* <input type="checkbox"/>		
Describe Area Affected and Cleanup Action Taken.*		
On Saturday March 12, 2016 at 0800 (MST), a release of crude oil/produced water occurred due to two ruptured gasket seals, resulting in the release of 1.6 BBLS of crude oil and 5 BBLS of produced water with 1.5 BBLS of crude and 4.5 BBLS of produced water recovered. Immediate action was to depressurize line, replace seals, and return equipment back to service. Location will be remediated in accordance with NMOCD and COPC policies with confirmation soil samples.		
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: Philip Lee <small>Digitally signed by Philip Lee DN: cn=Philip Lee, o=ConocoPhillips, ou, email=philip.p.lee@conocophillips.com, c=US Date: 2016.03.16 12:15:42 -05'00'</small>	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist:	
Printed Name: Philip Lee	Approval Date:	Expiration Date:
Title: HSE	Conditions of Approval:	
E-mail Address: philip.p.lee@conocophillips.com	Attached <input type="checkbox"/>	
Date: 03/16/2016	Phone: 432-238-1050	

* Attach Additional Sheets If Necessary

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Moises H Cantu Garcia Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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 Garcia 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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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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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.

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

☒ 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.
---	--	---	---

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

FILED ON NOV 17 2023 PM 1:10

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.

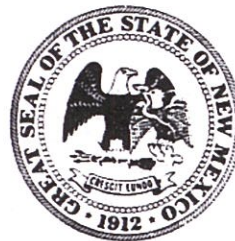
Sincerely,

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: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Monday, September 25, 2023 8:19 AM
To: Abbott, Sam; Enviro, OCD, EMNRD
Cc: Llull, Christian; Chavira, Lisbeth; Maxwell, Ashley, EMNRD; Llull, Christian; Chavira, Lisbeth; Smith, Cory, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Extension Request - Application ID 207107 (nJXK1608134606)

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

Sam,
The extension request for nJXK1608134606 is approved. The new due date is December 1, 2023.

If an approved workplan is found, it will need to have an email, stamps, etc. from the OCD that shows it was received and approved by the OCD prior to the rule change and will need to be submitted to the OCD ASAP. If the approved workplans are already uploaded into the files available on the OCD Permitting website the workplan will not need to be resubmitted.

Please let me know if you have any questions or require any additional information.

Thank you,
Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Friday, September 22, 2023 3:14 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request - Application ID 207107 (nJXK1608134606)

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Ms. Hall,

On behalf of ConocoPhillips, Tetra Tech is requesting an extension to December 1, 2023 to complete any necessary additional sampling and/or remedial activities and associated reporting for the Red Hills West 16 State W1 #011H Release site (nJXK1608134606).

A Closure Letter Report dated October 15, 2020 was rejected by the OCD on 4/18/2023 with the following comments: "Closure for this incident is not approved. The OCD requires that this release be Remediated according to the 04/07/2016 NMOCD approved Corrective Action Plan. If it is believed that the remediation has taken place the NMOCD

will require confirmation samples including analytical results (lab tested) A revised closure report should be resubmitted by 07/17/2023."

The OCD, ConocoPhillips, and Tetra Tech had a meeting on September 20, 2023 to discuss the OCD rejections of a select number of submitted closure reports associated with the Agreed Compliance Order (ACO) for open release incidents between ConocoPhillips and OCD. In this meeting, ConocoPhillips and Tetra Tech received clarification from the OCD on the closure requirements for the historical releases. Based on this meeting, ConocoPhillips will assess each remaining open release incident associated with the ACO to determine if there is an approved remediation work plan associated with the incident. If so, ConocoPhillips will proceed to perform the approved scope of work contained in the work plan. If there is not an approved work plan associated with the release incident, then ConocoPhillips will proceed with any necessary assessment and/or remediation activities in compliance with 19.15.29 NMAC. A corrective action plan was approved by OCD for the release incident in question.

ConocoPhillips is committed to addressing this open release incident in compliance with OCD regulations. Additional time is required to review incident records to determine whether the proposed remediation and confirmation sampling were previously conducted, perform additional sampling and remediation if necessary, and prepare a revised report for OCD review. A complete report will be submitted to the OCD within the requested timeframe.

Thank you,
Sam

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

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8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetrattech.com

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TETRA TECH

Chavira, Lisbeth

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Monday, December 4, 2023 10:42 AM
To: Chavira, Lisbeth
Cc: Llull, Christian; Abbott, Sam
Subject: RE: [EXTERNAL] Extension Request - Application ID 207107 (nJXK1608134606)

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

Lisbeth,
The extension request for **nJXK1608134606** is approved. The new due date is January 30, 2024.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,
Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Friday, December 1, 2023 3:14 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Application ID 207107 (nJXK1608134606)

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

Ms. Hall,

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 60-day extension (until January 30, 2024) to complete reporting for the for the Red Hills West 16 State W1 #011H Release site (**nJXK1608134606**). A previous extension request was approved on September 22, 2023 for December 1, 2023.

A Closure Letter Report dated October 15, 2020, was rejected by the OCD on 4/18/2023 with the following comments:

"Closure for this incident is not approved. The OCD requires that this release be Remediated according to the 04/07/2016 NMOCD approved Corrective Action Plan. If it is believed that the remediation has taken place the NMOCD will require confirmation samples including analytical results (lab tested) A revised closure report should be resubmitted by 07/17/2023."

The OCD, ConocoPhillips, and Tetra Tech had a meeting on September 20, 2023, to discuss the OCD rejections of a select number of submitted closure reports associated with the Agreed Compliance Order (ACO) for open release incidents between ConocoPhillips and OCD. In this meeting, ConocoPhillips and Tetra Tech received clarification from the OCD on the closure requirements for the historical releases.

Based on this meeting and a desktop review of the incident, Tetra Tech conducted assessment sampling activities at the Red Hills West 16 State W1 #011H:

- Assessment and delineation activities were conducted on October 10, 2023.
- Tetra Tech installed four (4) hand auger borings within and around the approximate release extent.
- 4 Samples were collected and submitted to Cardinal to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.
- The collected data is presents in Table 1 attached.
- The boring locations are provided in the attached figure.
- Neither horizontal delineation nor vertical delineation was able to be achieved. The pad conditions led to shallow auger refusal.
- Tetra Tech will be re-mobilizing to the site to complete delineation (via trenching) the week of December 4th.

In addition, to adequately determine depth to groundwater, ConocoPhillips is planning to install a depth to groundwater boring. An *Application for Permit to Drill* was submitted to the Office of State Engineer dated November 13, 2023, for the installation of the DTW boring. The BLM has granted approved to drill the DTW, however, as of today, Tetra Tech has not received the OSE permit and is awaiting a response from the OSE before scheduling the drilling.

Therefore, additional time is required to perform additional assessment sampling, complete site characterization, and prepare a revised report for OCD review.

A complete report will be submitted to the OCD within the requested timeframe.

Thank you in advance.

Lisbeth Chavira | Staff Geoscientist

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

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

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TETRA TECH

Chavira, Lisbeth

From: Llull, Christian
Sent: Thursday, December 7, 2023 4:17 PM
To: Chavira, Lisbeth
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 292462

Christian

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 07, 2023 4:11 PM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 292462

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nJXK1608134606.

The sampling event is expected to take place:

When: 12/12/2023 @ 10:15

Where: A-16-26S-32E 316 FNL 330 FEL (32.0494461,-103.6723938)

Additional Information: 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°

Additional Instructions: Approximate Release Location: 32.049410°, -103.672409°

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

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Lull, Christian](#)
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 308414
Date: Friday, February 2, 2024 9:47:50 AM

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

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nJXK1608134606, for the following reasons:

- **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.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 308414.

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

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

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: OCDOnline@state.nm.us
Sent: Monday, February 26, 2024 2:44 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 317582

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nJXK1608134606.

The sampling event is expected to take place:

When: 02/28/2024 @ 15:00

Where: A-16-26S-32E 316 FNL 330 FEL (32.0494461,-103.6723938)

Additional Information: Red Hills West State 16 W1 11H Release

ConocoPhillips

Lea County, New Mexico

DOR: 3/12/2016

INCIDENT ID: nJXK1608134606

Approximate Release Point 32.049410°, -103.672409°

Landowner: New Mexico State Land Office (NMSLO)

Additional Instructions: Red Hills West State 16 W1 11H Release

ConocoPhillips

Lea County, New Mexico

DOR: 3/12/2016

INCIDENT ID: nJXK1608134606

Approximate Release Point 32.049410°, -103.672409°

Landowner: New Mexico State Land Office (NMSLO)

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

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

APPENDIX C

Site Characterization Data

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		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
5												-SP- SAND: Brown, loose, dry, fine- to coarse-grained, with abundant sub-angular to sub-rounded caliche	2		
6										-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

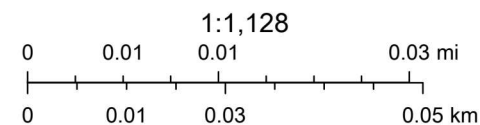
OCD Karst Areas



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

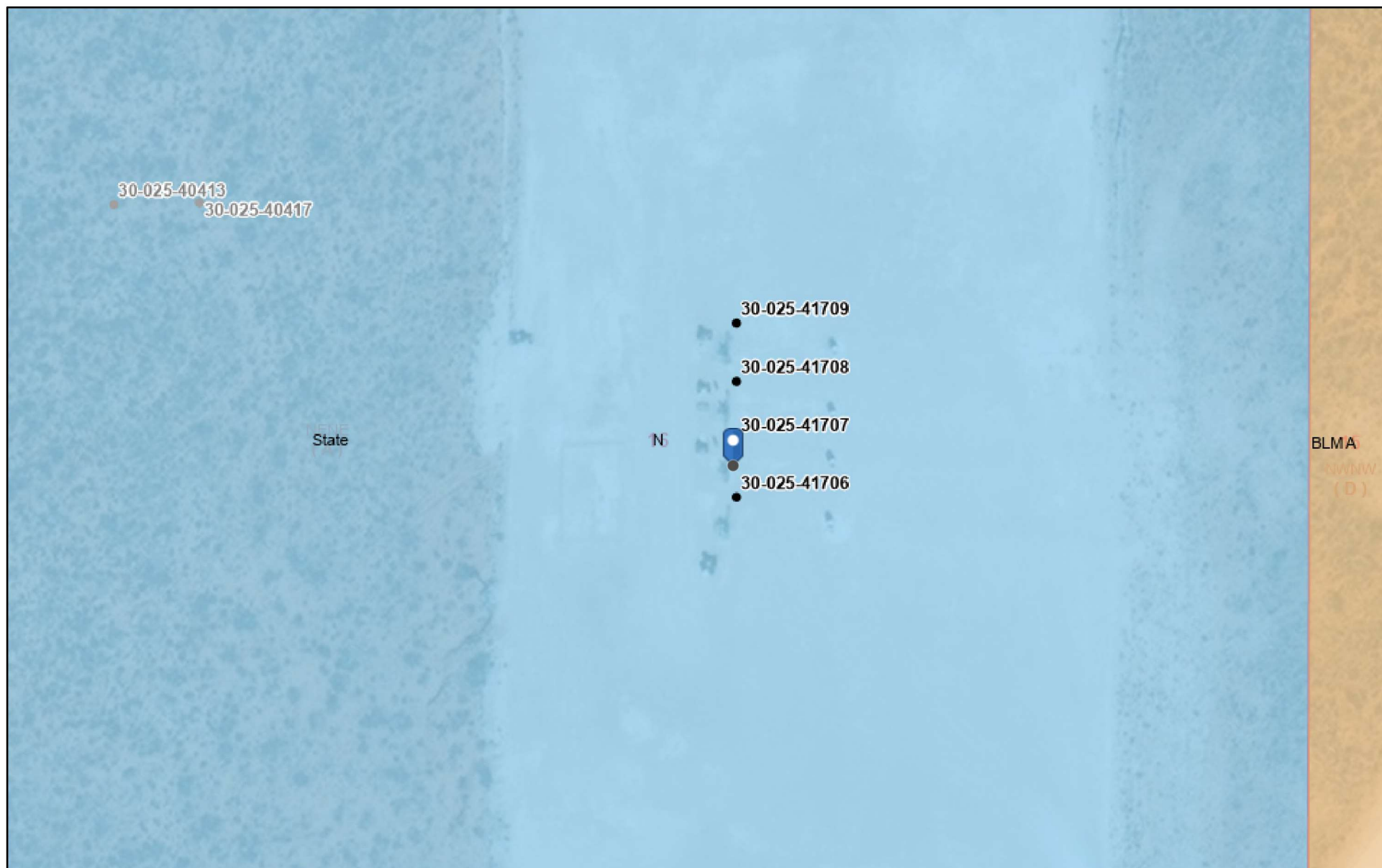
Karst Occurrence Potential

Medium



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

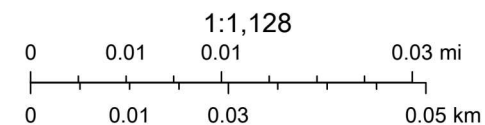
OCD Land Ownership



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

Wells - Large Scale Land Ownership Mineral Ownership

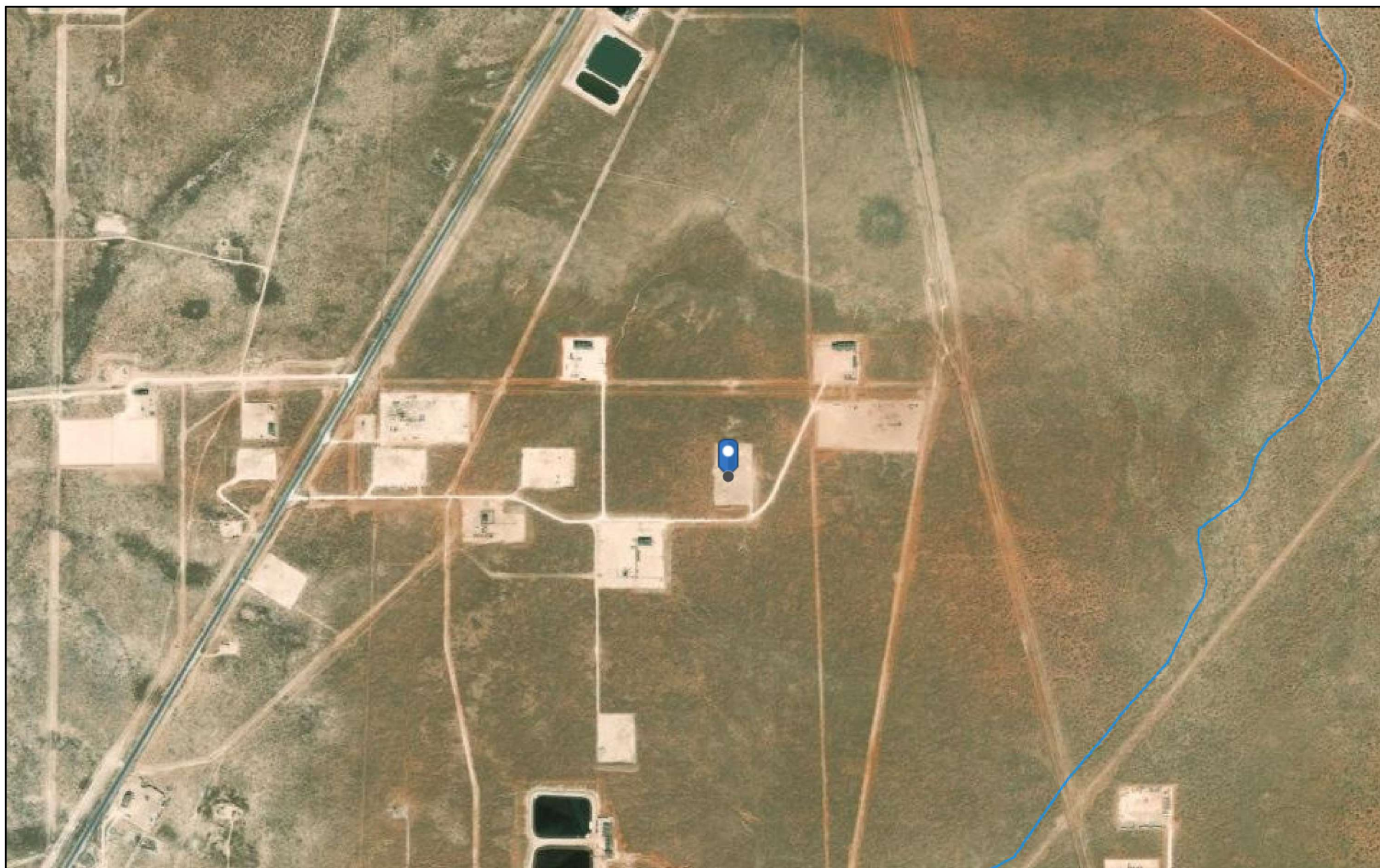
- Oil, Active
- Oil, Cancelled
- BLM
- S
- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.



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

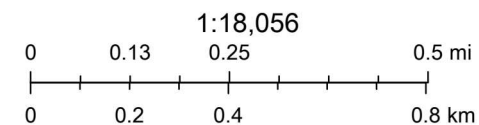
New Mexico Oil Conservation Division

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.

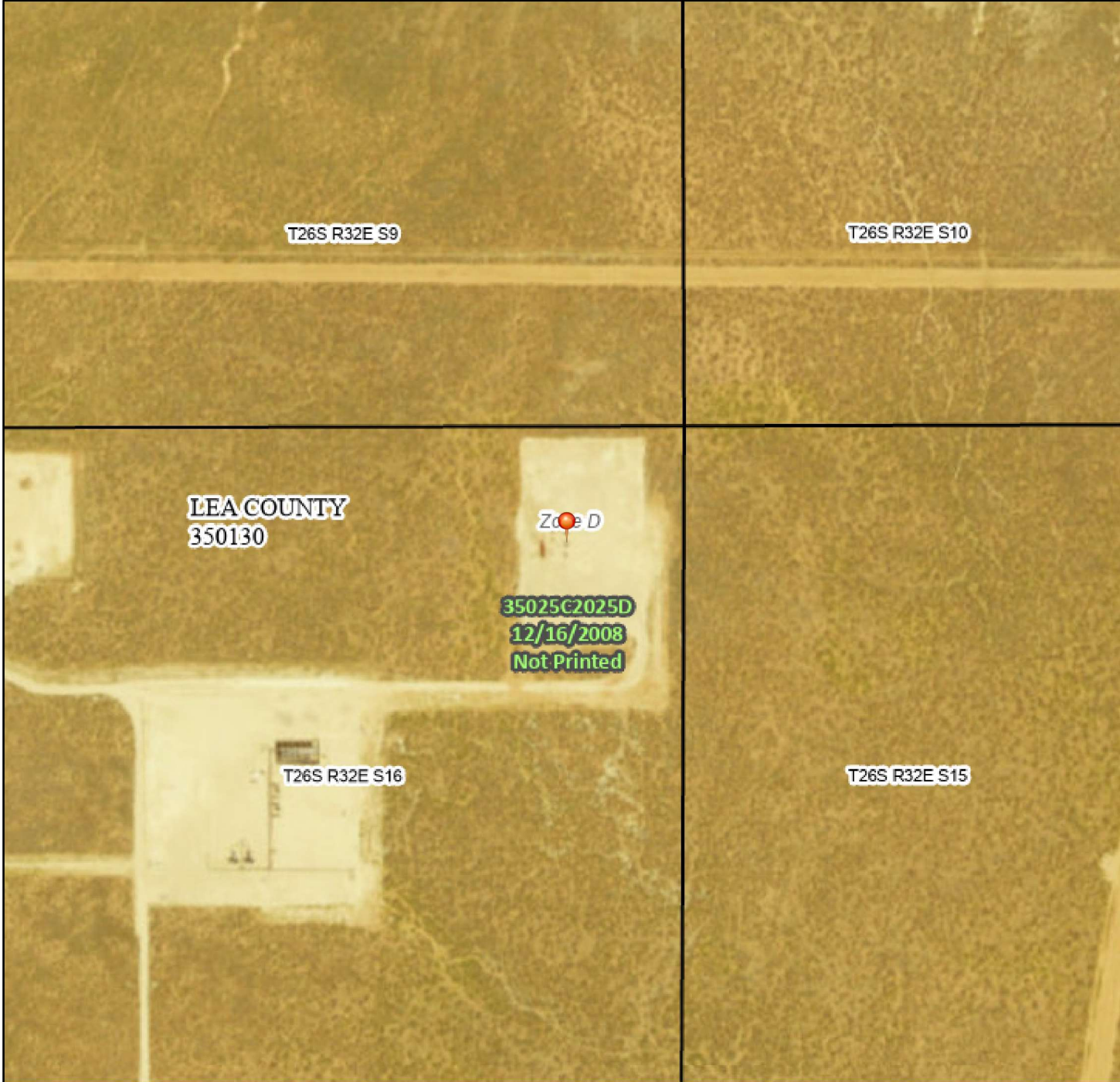
10/12/23 9:04 AM

POINT OF DIVERSION SUMMARY

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
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		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
OTHER AREAS		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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.

APPENDIX D

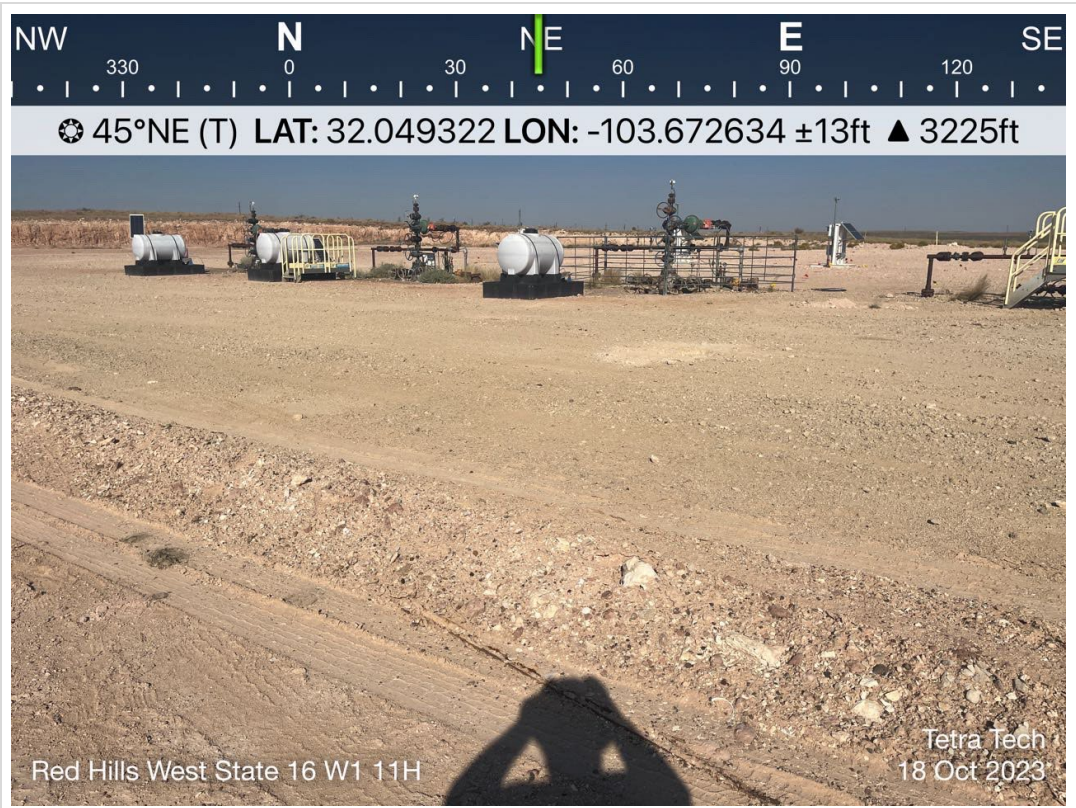
Photographic Documentation



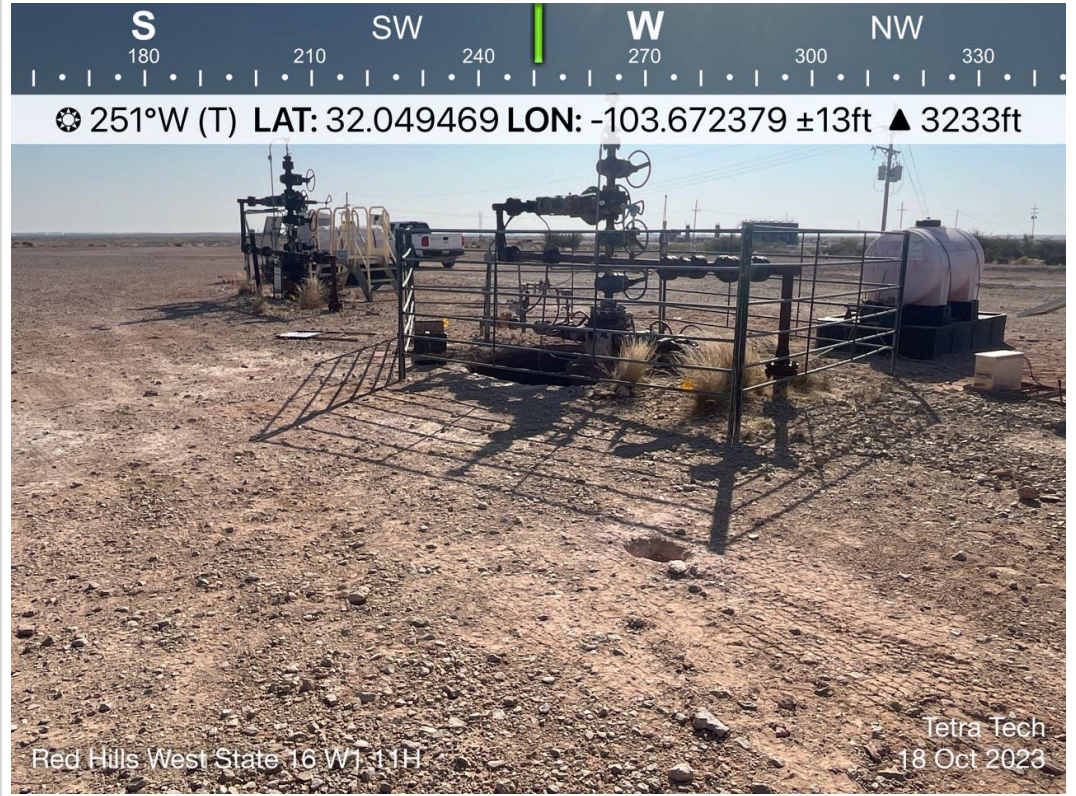
TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View of Site signage. Red Hills West 16 State W1 11H.	1
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	10/18/2023



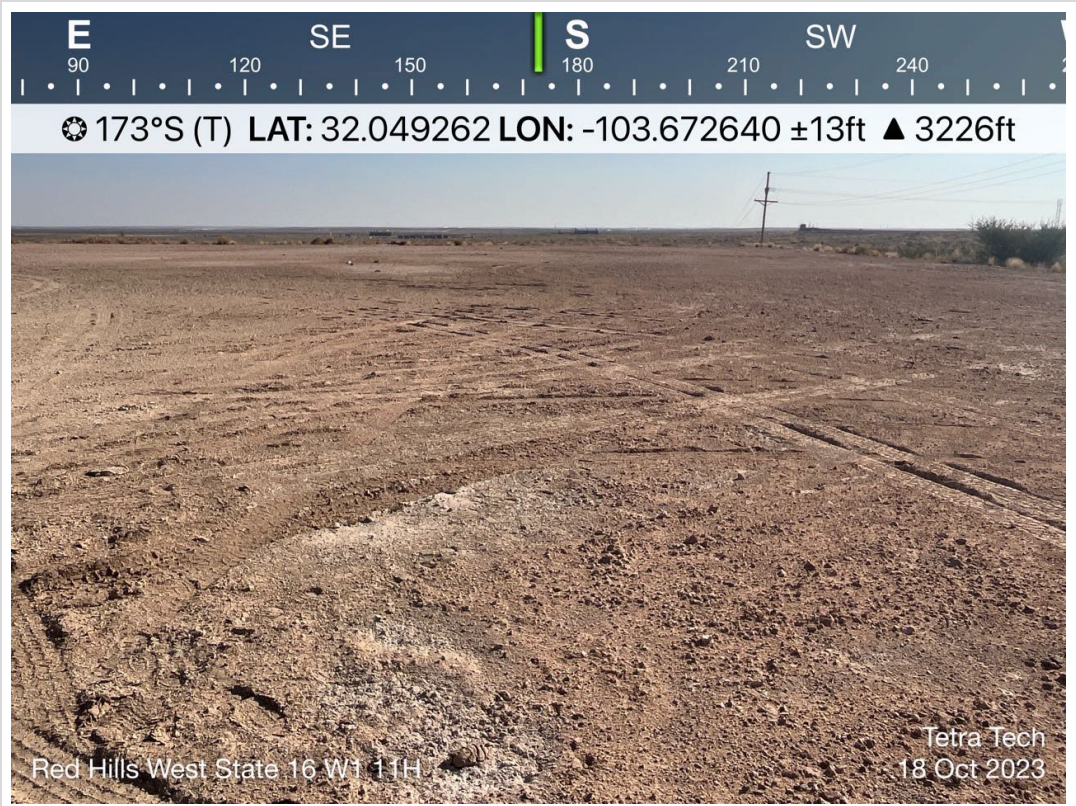
TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View north of Site assessment activities. Approximate release area.	2
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	10/18/2023



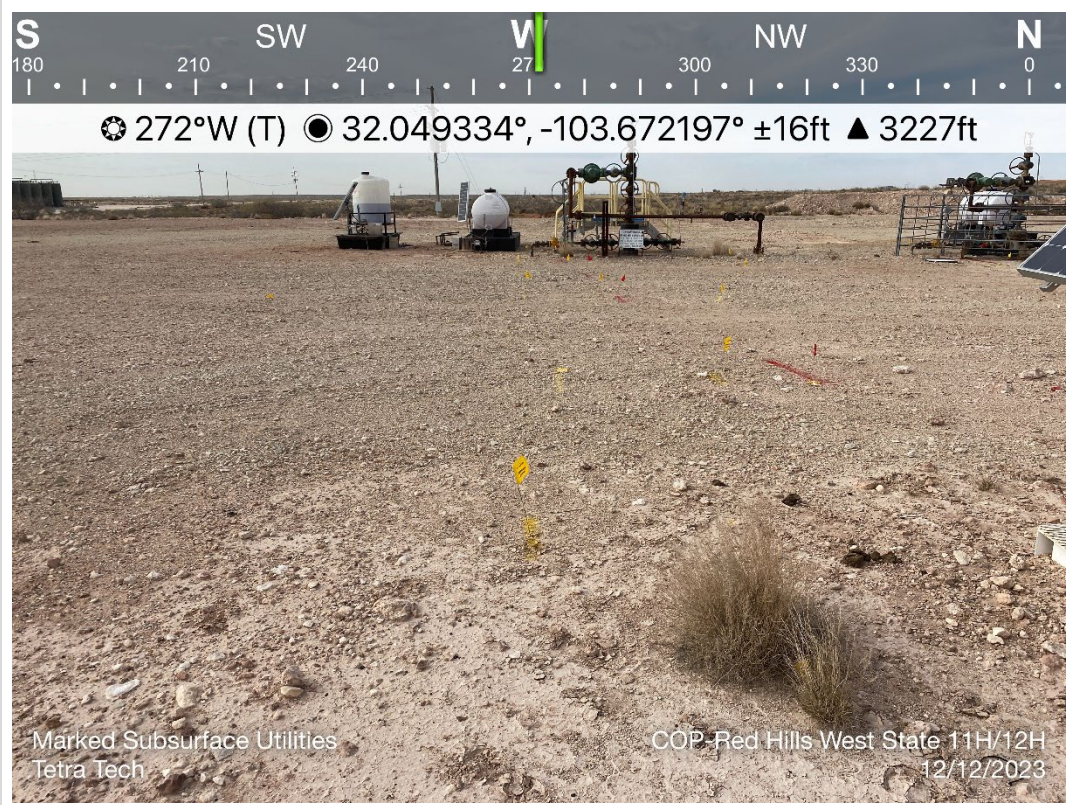
TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View northeast of Site assessment activities. Approximate release area.	3
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	10/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View west-southwest of Site assessment activities. Approximate release area.	4
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	10/18/2023



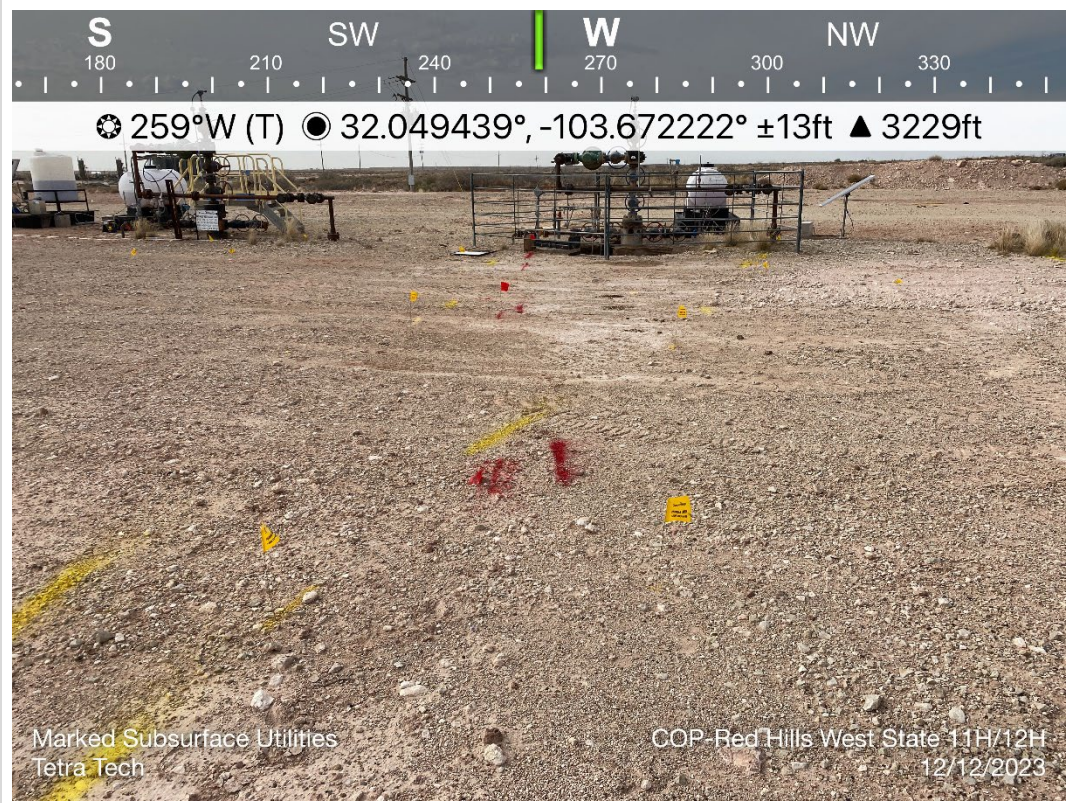
TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View south of Site assessment activities. Approximate release area.	5
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	10/18/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View west of approximate release area and marked subsurface utilities.	6
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	12/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View north-northeast of approximate release area and marked subsurface utilities.	7
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	12/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View west of approximate release area and marked subsurface utilities.	8
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	12/12/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-03245	DESCRIPTION	View east-southeast of approximate release area and marked subsurface utilities.	9
	SITE NAME	RED HILLS WEST 16 STATE W1 11H Release	12/12/2023

APPENDIX E

Laboratory Analytical Data

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

October 31, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS WEST STATE 16W 11H

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 10:55.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 1 (0-1)	H235574-01	Soil	11-Oct-23 10:00	12-Oct-23 10:55
AH - 2 (0-1)	H235574-02	Soil	11-Oct-23 10:30	12-Oct-23 10:55
AH - 3 (0-1)	H235574-03	Soil	11-Oct-23 11:00	12-Oct-23 10:55
AH - 4 (0-1)	H235574-04	Soil	11-Oct-23 11:30	12-Oct-23 10:55

10/31/23 - Client added sample depths (see COC). This is the revised report and will replace the one sent on 10/18/23.

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



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

AH - 1 (0-1)
H235574-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	2320		16.0	mg/kg	4	3101316	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101320	MS	14-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134 3101320 MS 14-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	

Surrogate: 1-Chlorooctane 97.4 % 48.2-134 3101219 MS 12-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 3101219 MS 12-Oct-23 8015B

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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

AH - 2 (0-1)
H235574-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	2520		16.0	mg/kg	4	3101316	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101320	MS	14-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		3101320	MS	14-Oct-23	8021B	
--	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.7 %	48.2-134		3101219	MS	12-Oct-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			82.8 %	49.1-148		3101219	MS	12-Oct-23	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

AH - 3 (0-1)
H235574-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3101316	AC	13-Oct-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101320	MS	14-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %		71.5-134		3101320	MS	14-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	

Surrogate: 1-Chlorooctane		77.3 %		48.2-134		3101219	MS	12-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane		91.5 %		49.1-148		3101219	MS	12-Oct-23	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

AH - 4 (0-1)
H235574-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	624		16.0	mg/kg	4	3101316	AC	13-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101320	MS	14-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101320	MS	14-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.0 %		71.5-134	3101320	MS	14-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101219	MS	12-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.4 %		48.2-134	3101219	MS	12-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.7 %		49.1-148	3101219	MS	12-Oct-23	8015B	
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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3101316 - 1:4 DI Water									
Blank (3101316-BLK1)					Prepared & Analyzed: 13-Oct-23				
Chloride	ND	16.0	mg/kg						
LCS (3101316-BS1)					Prepared & Analyzed: 13-Oct-23				
Chloride	448	16.0	mg/kg	400		112 80-120			
LCS Dup (3101316-BSD1)					Prepared & Analyzed: 13-Oct-23				
Chloride	432	16.0	mg/kg	400		108 80-120	3.64	20	

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101320 - Volatiles**Blank (3101320-BLK1)**

Prepared: 13-Oct-23 Analyzed: 14-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

LCS (3101320-BS1)

Prepared: 13-Oct-23 Analyzed: 14-Oct-23

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.08	0.050	mg/kg	2.00		104	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.34	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.03	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.36	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.1	71.5-134			

LCS Dup (3101320-BSD1)

Prepared: 13-Oct-23 Analyzed: 14-Oct-23

Benzene	1.92	0.050	mg/kg	2.00		96.2	82.8-130	4.73	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.9	86-128	5.10	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	5.41	16	
m,p-Xylene	4.11	0.100	mg/kg	4.00		103	89-129	5.46	16.2	
o-Xylene	1.90	0.050	mg/kg	2.00		95.0	86.1-125	6.40	16.7	
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128	5.76	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0483		mg/kg	0.0500		96.6	71.5-134			

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: RED HILLS WEST STATE 16W 11F
Project Number: 212C-MD-03245
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
31-Oct-23 08:57

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101219 - General Prep - Organics**Blank (3101219-BLK1)**

Prepared & Analyzed: 12-Oct-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.8		mg/kg	50.0		81.6	48.2-134			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.7	49.1-148			

LCS (3101219-BS1)

Prepared & Analyzed: 12-Oct-23

GRO C6-C10	176	10.0	mg/kg	200		87.8	66.4-123			
DRO >C10-C28	207	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	77.6-123			
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.9	48.2-134			
Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	49.1-148			

LCS Dup (3101219-BS1)

Prepared & Analyzed: 12-Oct-23

GRO C6-C10	170	10.0	mg/kg	200		84.9	66.4-123	3.35	17.7	
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118	2.01	21	
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	77.6-123	2.62	18.5	
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.6	48.2-134			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	49.1-148			

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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



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

December 18, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS WEST 16 STATE W1 #11H RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/13/23 9:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 1 (0-1') (H236644-01)

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	12/13/2023	ND	2.19	109	2.00	3.69	
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50	
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67	
Total BTX	<0.300	0.300	12/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1840	16.0	12/14/2023	ND	400	100	400	11.3	

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 1 (2'-3') (H236644-02)

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	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	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	176	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 1 (3'-4') (H236644-03)

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	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 2 (0-1') (H236644-04)

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	12/13/2023	ND	2.19	109	2.00	3.69	
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50	
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67	
Total BTEX	<0.300	0.300	12/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	928	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	23.8	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 2 (2-3') (H236644-05)

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	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	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	112	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21		
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37		
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 3 (0-1') (H236644-06)

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	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	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	720	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 3 (2-3') (H236644-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69	
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50	
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67	
Total BTEX	<0.300	0.300	12/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1120	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	11.4	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 3 (3-4') (H236644-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69	
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50	
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92	
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67	
Total BTEX	<0.300	0.300	12/13/2023	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	576	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	10.5	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: T - 3 (5-6') (H236644-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEx	<0.300	0.300	12/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 5 (0-1') (H236644-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/14/2023	ND	224	112	200	1.21	
DRO >C10-C28*	<10.0	10.0	12/14/2023	ND	222	111	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 6 (0-1') (H236644-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	210	105	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	184	92.2	200	6.88	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Analytical Results For:

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

Received:	12/13/2023	Sampling Date:	12/12/2023
Reported:	12/18/2023	Sampling Type:	Soil
Project Name:	RED HILLS WEST 16 STATE W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: AH - 7 (0-1') (H236644-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2023	ND	2.19	109	2.00	3.69		
Toluene*	<0.050	0.050	12/13/2023	ND	2.35	118	2.00	5.50		
Ethylbenzene*	<0.050	0.050	12/13/2023	ND	2.49	124	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/13/2023	ND	7.43	124	6.00	8.67		
Total BTEX	<0.300	0.300	12/13/2023	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	48.0	16.0	12/14/2023	ND	400	100	400	11.3		

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	12/13/2023	ND	210	105	200	2.48	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	184	92.2	200	6.88	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 05, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS WEST STATE 16 W1 #11H RELEASE

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/05/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST STATE 16 W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 1 (H241002-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.30	115	2.00	0.400	
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308	
Total BTEx	<0.300	0.300	03/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	03/01/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2024	ND	215	107	200	4.42	
DRO >C10-C28*	76.0	10.0	02/29/2024	ND	206	103	200	5.00	
EXT DRO >C28-C36	19.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/05/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST STATE 16 W1 #11H Rf	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 2 (H241002-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2024	ND	2.30	115	2.00	0.400		
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197		
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310		
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308		
Total BTEX	<0.300	0.300	03/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	7330	16.0	03/01/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2024	ND	215	107	200	4.42		
DRO >C10-C28*	249	10.0	02/29/2024	ND	206	103	200	5.00		
EXT DRO >C28-C36	100	10.0	02/29/2024	ND						

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/05/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST STATE 16 W1 #11H Rf	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 3 (H241002-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2024	ND	2.30	115	2.00	0.400		
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197		
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310		
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308		
Total BTEX	<0.300	0.300	03/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	5040	16.0	03/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2024	ND	215	107	200	4.42	
DRO >C10-C28*	31.7	10.0	02/29/2024	ND	206	103	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	02/29/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/29/2024	Sampling Date:	02/28/2024
Reported:	03/05/2024	Sampling Type:	Soil
Project Name:	RED HILLS WEST STATE 16 W1 #11H R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03245	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 4 (H241002-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2024	ND	2.30	115	2.00	0.400		
Toluene*	<0.050	0.050	03/01/2024	ND	2.25	112	2.00	0.197		
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.22	111	2.00	0.310		
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.40	107	6.00	0.308		
Total BTEX	<0.300	0.300	03/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	5840	16.0	03/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/29/2024	ND	215	107	200	4.42		
DRO >C10-C28*	170	10.0	02/29/2024	ND	206	103	200	5.00		
EXT DRO >C28-C36	68.4	10.0	02/29/2024	ND						

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

Phone #: (512)565-0190 Fax #: State: TX Zip:

Project #: 212C-MD-03245 Project Owner: ConocoPhillips

Project Name: Red Hills West State 16 W1 #11H Release

Project Location: Lea County, New Mexico

Sampler Name: Colton Bickstaff

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City: State: Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

1641002

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			TPH 8015M	BTEX 8021B	Chloride SM4500CI-B			
	CS-1	C	1	X						2/28/2024		X	X	X			
	CS-2	C	1	X						2/28/2024		X	X	X			
	CS-3	C	1	X						2/28/2024		X	X	X			
	CS-4	C	1	X						2/28/2024		X	X	X			

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Relinquished By: Colton Bickstaff	Date: 2/29/24	Received By: <i>Shadequell</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 1/30	Received By:	All Results are emailed. Please provide Email address: Christian.Lull@tetratech.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool <input checked="" type="checkbox"/> Hot <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID: #140 Correction Factor: none	Bacteria (coly) s - single Condition Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/>

FORM-006 R.3.2 10/07/21

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

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

QUESTIONS

Action 332958

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:	217817
	Action Number:	332958
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nJXK1608134606
Incident Name	NJXK1608134606 RED HILLS WEST 16 STATE W1 #011H @ 30-025-41707
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41707] RED HILLS WEST 16 STATE W1 #011H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RED HILLS WEST 16 STATE W1 #011H
Date Release Discovered	03/12/2016
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 7 BBL Recovered: 6 BBL Lost: 1 BBL.
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	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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, Page 2

Action 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	332958
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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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District I

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QUESTIONS, Page 3

Action 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:	217817
	Action Number:	332958
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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)	7330
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	349
GRO+DRO	(EPA SW-846 Method 8015M)	249
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	02/28/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2024
On what date will (or was) the remediation complete(d)	02/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	644
What is the estimated volume (in cubic yards) that will be remediated	24

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	332958
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 332958
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	332958
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	317582
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	644

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	644
What was the total volume (cubic yards) remediated	24
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	A total of four (4) five-point composite samples were collected from the approximate release area footprint. All analytical results associated with 2023 and 2024 assessment results were below the Site RRALs; therefore, no further remediation of the on-pad release footprint is required. Based on the site characterization, the remaining soils on the production lease pad meet the closure criteria of Table I of 19.15.29.12 NMAC. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of any impact within the lease pad area shall take place once the Site is no longer being used for oil and gas operations. Therefore, reclamation of the soils located within the confines of the Red Hills West State pad will be completed upon the abandonment of the Red Hills West State wells.

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@tetrattech.com Date: 04/12/2024
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QUESTIONS, Page 7

Action 332958

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 332958
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 332958

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID:
	217817
	Action Number:
	332958
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation approved.	4/18/2024
amaxwell	<ul style="list-style-type: none">The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.	4/18/2024