



July 11, 2025

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

**Re: Closure Request  
ConocoPhillips (Heritage COG Operating LLC)  
Lychee State Com #001H Heater Release/Fire  
Unit Letter O, Section 22, Township 21 South, Range 34 East  
Lea County, New Mexico  
Incident ID# NAPP2501444745**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a historical release that occurred from the Lychee BWS State Com #001H Release (API # 30-025-42445). The approximate release site coordinates are 32.45743333°, -103.4560638°, located in the Public Land Survey System (PLSS) Unit Letter O, Section 22, Township 21 South, Range 34 East, Lea County, New Mexico (Site). The Site location is shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico Initial C-141 Form, the release was discovered on January 14, 2025, and resulted in the release of 10 bbls of crude oil, of which 0 bbls were recovered. According to information provided by COP, the release occurred when a cracked weld caused oil to be sprayed out, which was subsequently ignited by the heater treater. The release occurred within a falcon lined facility. An Initial notice of release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 14, 2025, and the NMOCD assigned the Incident ID NAPP2501444745. The NMOCD approved the initial C-141 on January 21, 2025. The Initial C-141 Form is included in Appendix A.

## LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on state lands managed by the New Mexico State Land Office (NMSLO). It is also our understanding that COP has a Surface Use and Compensation Agreement (SUA) in place with the Merchant Livestock Company (MLSCO). According to information provided by COP, the Merchant SUA stipulates that the Site must be remediated and reclaimed per the SUA requirements.

## CULTURAL PROPERTIES PROTECTION

Tetra Tech, on behalf of COP, had previously contracted SWCA Environmental Consultants (SWCA) to conduct an Archeological Resources Management Section (ARMS) to comply with 19.2.24 New Mexico Administrative Code (NMAC) for this area. On September 28, 2023, SWCA completed a literature and file search using the New Mexico Cultural Resources Information System (NMCRIIS) 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 Bureau of Land Management General Land Office Records web site, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed.

Tetra Tech

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In the review, SWCA found the area surrounding the site footprint 1 km (0.62 mile) has been subject to thirteen (13) cultural resource surveys, twelve (12) of which are qualifying. The project area is entirely located NMSLO-managed lands and is covered by four (4) qualifying surveys conducted within the last ten years and is located on previously disturbed land from oil and gas construction activities.

All remediation and reclamation work remained within the previously qualifying survey area and the approved existing disturbance. A copy of the redacted ARMS letter is included in Appendix B.

## SITE CHARACTERIZATION

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

According to the NMOSE reporting system, there are no water wells within ½ mile (800 meters) of the Site. There are two (2) wells within 1.05 miles (1,695 meters) of the Site with an average depth to groundwater of 140 feet below ground surface (bgs). There is one (1) USGS groundwater monitoring well located within 0.6 miles of the Site with a depth to groundwater of 774.99 feet bgs.

A previous depth to groundwater (DTW) boring was installed at the Lychee State Com #001H pad, as there were limited groundwater monitoring wells within 800 meters of the Site. A licensed well drilling subcontractor was onsite on July 19, 2023, to drill a groundwater determination borehole (DTW-1) to 55 feet bgs at the southeastern edge of the Lychee BWS State Com #001H lease pad. The borehole location is indicated on Figure 3. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. The well screen and casing were removed, and the borehole was plugged with 3/8-inch bentonite chips. The site characterization data, boring log, and temporary well diagram are presented in Appendix C.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, and the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

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

## SITE ASSESSMENT

On January 29, 2025, Tetra Tech was onsite to conduct assessment activities on behalf of COP. Assessment activities included installing four (4) hand auger borings (AH-1 through AH-4) were installed along the perimeter of the release extent to 1-foot bgs each. Six (6) hand auger borings (AH-5 through AH-10) were installed in the release area to total depths ranging from 1 to 2 feet bgs. Auger refusal was met at roughly between 1 and 2 feet bgs due to the dense subsurface lithology beneath the footprint. As these samples were collected inside an active facility, extreme caution was taken due to the close proximity of the production equipment in the release area. Photographic documentation of the release area is presented in Appendix D.

A total of twelve (12) soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix E. The sampling locations are presented in Figure 3.

This release occurred in a falcon lined facility. During assessment activities the liner was observed to have been burned and charred in the release area. The hand auger borings were installed in areas where the liner was no longer present due to fire.

## SUMMARY OF RESULTS

The laboratory analytical results from the January 2025 assessment sampling activities are summarized in Table 1. Although the laboratory analytical results associated with sampling locations AH-6 through AH-8 are above the applicable Site RRAL for TPH at 0-1 feet bgs, the analytical results associated with sampling locations AH-5 and AH-9 are below the Site RRAL for TPH at 1-2 feet bgs. All other analytical results were below the applicable Site RRALs. The horizontal and vertical extents of the release are delineated following the January 2025 assessment sampling activities.

## REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

ConocoPhillips operation personnel mobilized to the site to conduct remedial activities from May 1 through May 4, 2025. Based on the collected analytical results, ConocoPhillips operations excavated the release extent to a maximum depth of 1 feet bgs to remove impacted soils in the areas of AH-6 through 8, as presented in Figure 4. As work was completed inside a facility, hydrovac was utilized due to numerous surface lines and equipment were present within the excavation area.

Prior to confirmation sampling, the NMOCD district office was notified on May 5, 2025, via the OCD Portal (C-141N) in accordance with Subsection D of 19.15.29.12 NMAC. A variance was requested for the May 6, 2025, sampling event via email, which was denied. A subsequent C-141N was submitted to meet the 48-hour notice period. Copies of the regulatory correspondence are included in Appendix F.

All of the excavated material was transported offsite for proper disposal. Approximately forty-seven (47) cubic yards of material were transported to the R360 Halfway in Hobbs, New Mexico.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities on May 8, 2025. Confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#. Final excavated areas, depths, and representative confirmation sample locations are indicated in Figure 4. Photographs from the excavated areas prior to backfill are provided in Appendix C.

A total of five (5) floor sample locations and five (5) sidewall sample locations were used during the remedial activities. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chloride by SM4500Cl-B. Laboratory analytical data is included in Appendix D.

The results of the May 2025 confirmation sampling events are summarized in Table 2. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

## SITE RECLAMATION

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material that is non-waste containing, uncontaminated, earthen material and the liner replaced. The area was restored to the original condition. This release footprint was within an active pad, so these areas were not seeded.

Closure Request  
July 11, 2025

ConocoPhillips

## CONCLUSION

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

Sincerely,  
**Tetra Tech, Inc.**



Lisbeth Chavira  
Project Manager



Christian M. Llull, P.G.  
Program Manager

cc:  
Mr. Jacob Laird, BU – ConocoPhillips



## LIST OF ATTACHMENTS

### Figures:

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

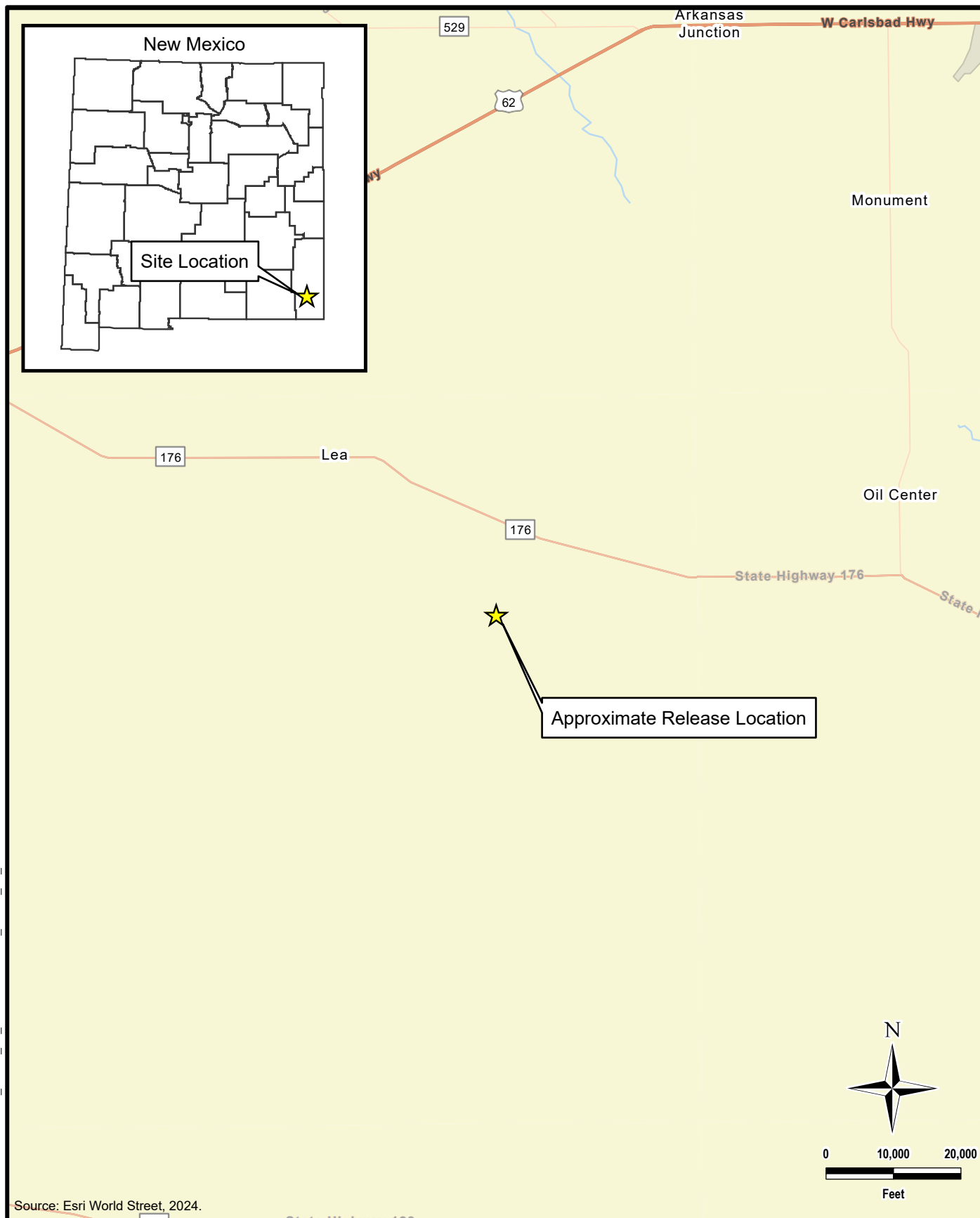
### Tables:

- Table 1 – Summary of Analytical Results – 2025 Soil Assessment
- Table 2 - Summary of Analytical Results – 2025 Soil Remediation

### Appendices:

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

## **FIGURES**



Source: Esri World Street, 2024.



**TETRA TECH**

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**CONOCOPHILLIPS**

NAPP2501444745  
(32.45743333°, -103.4560638°)  
LEA COUNTY, NEW MEXICO

**LYCHEE STATE COM 001H HEATER RELEASE/FIRE  
OVERVIEW MAP**

PROJECT NO.: 212C-MD-03756

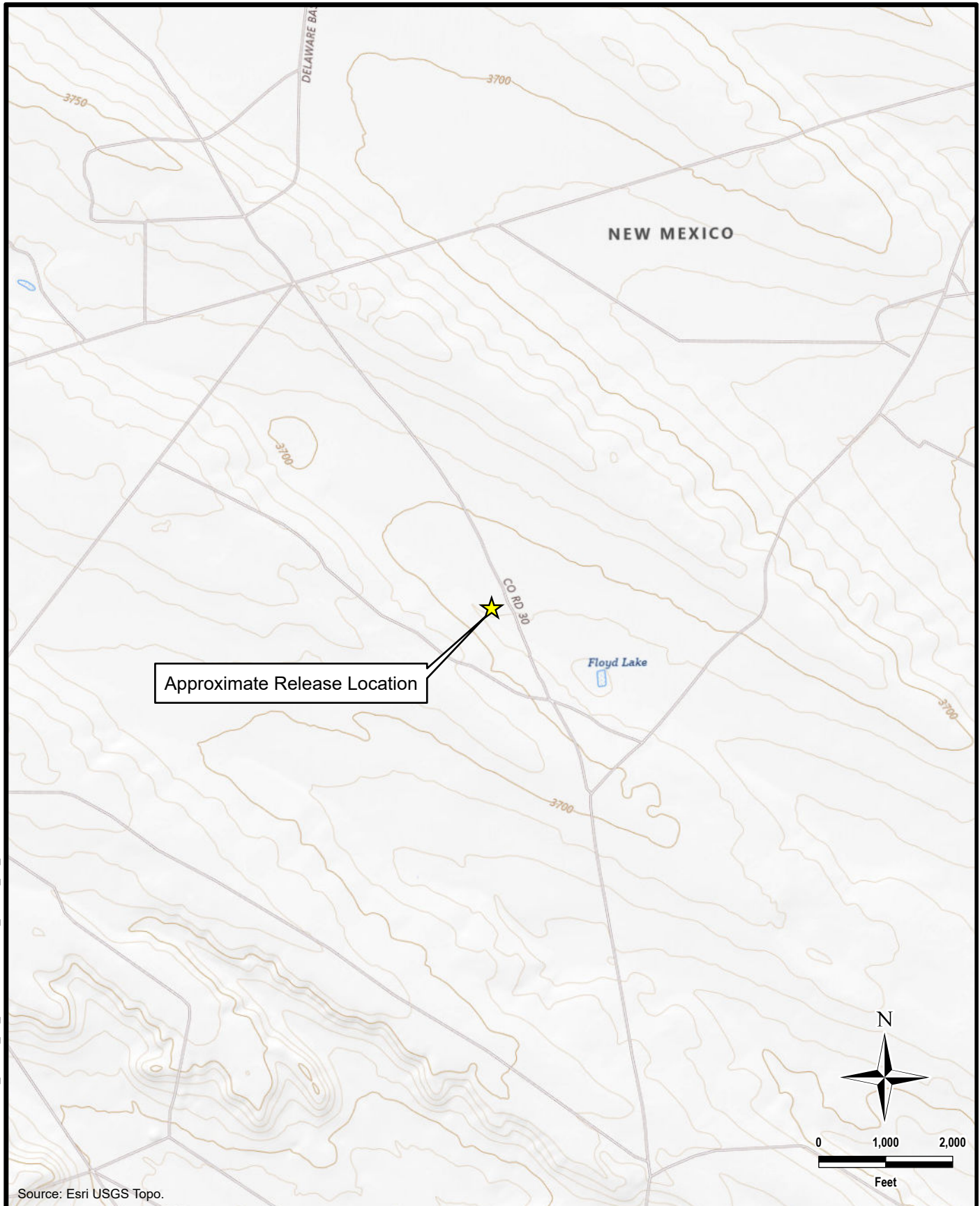
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DESIGNED BY: LMV

Figure No.

**1**

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**TETRA TECH**

[www.tetrattech.com](http://www.tetrattech.com)

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**CONOCOPHILLIPS**

NAPP2501444745  
(32.45743333°, -103.4560638°)  
LEA COUNTY, NEW MEXICO

**LYCHEE STATE COM 001H HEATER RELEASE/FIRE  
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03756

DATE: FEBRUARY 13, 2025

DESIGNED BY: LMV

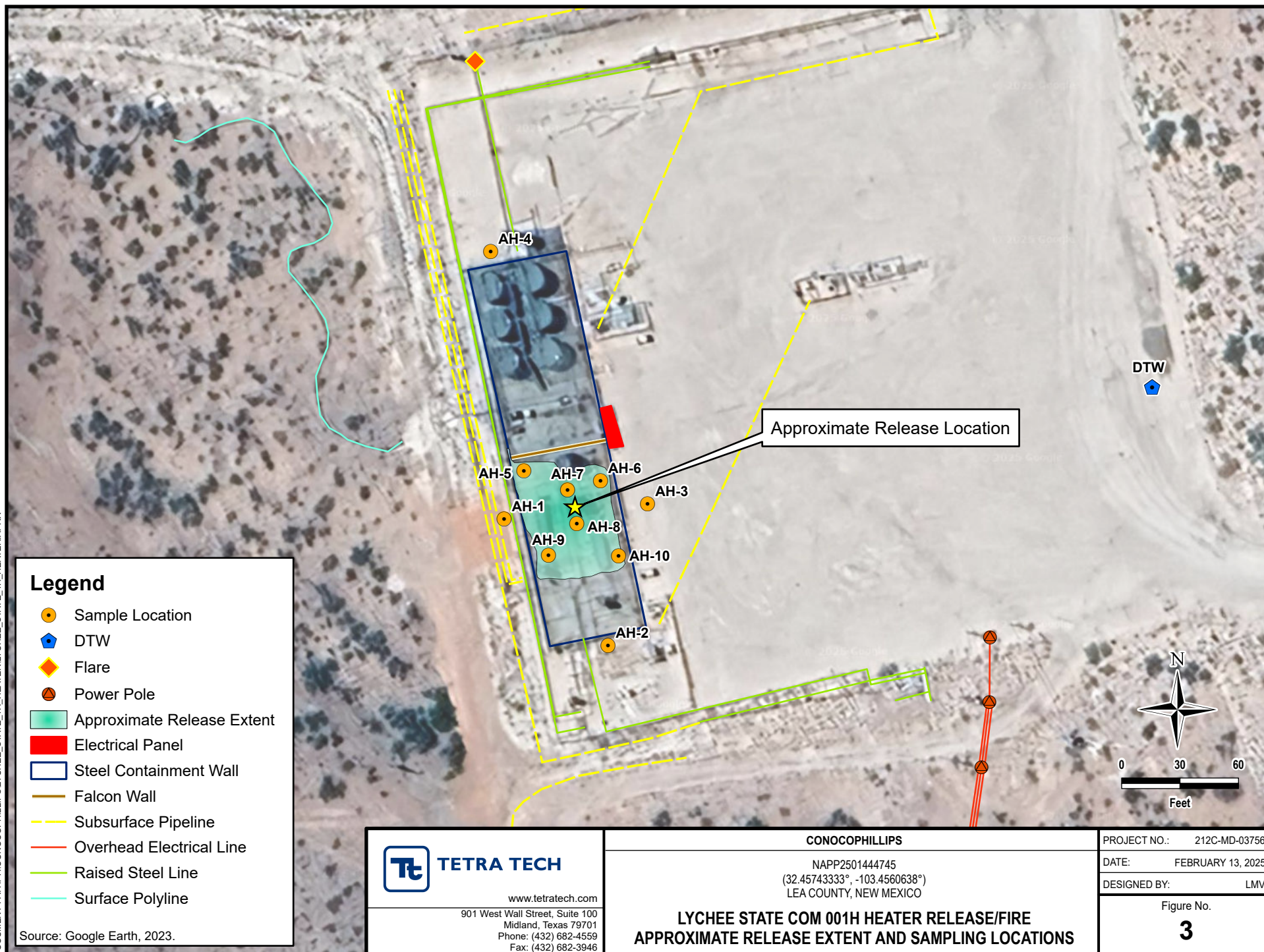
Figure No.

**2**

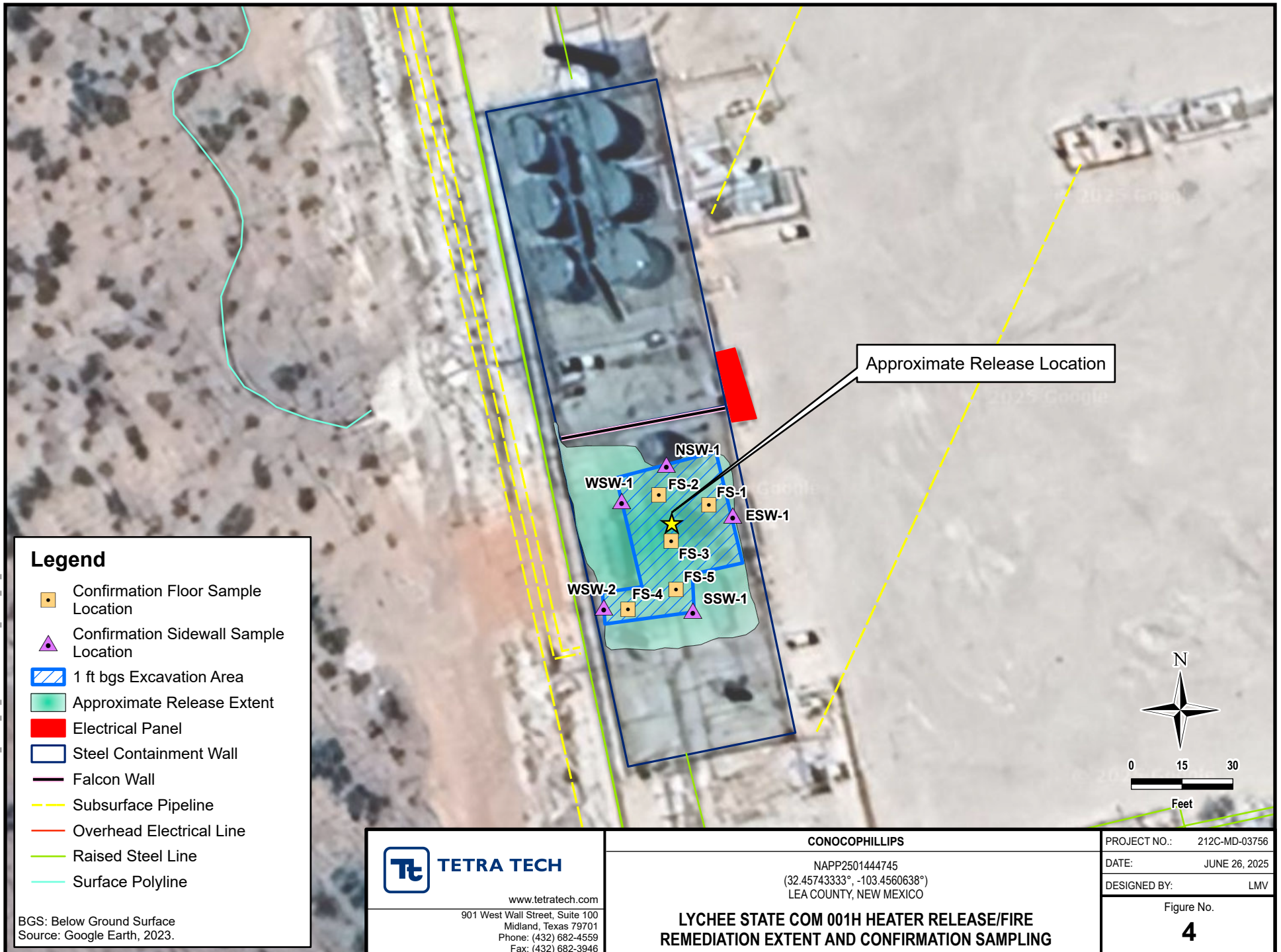
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## **TABLES**



TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT- nAPP2501444745  
CONOCOPHILLIPS  
LYCHEE STATE COM #001H HEATER RELEASE/FIRE  
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (> 55 ft):						Chlorides <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>									
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		< 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		
			Chlorides	PID	Chloride		Benzene																Total BTEX		Total TPH (GRO+DRO+EXT DRO)		GRO+DRO
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
AH-1	1/29/2025	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		17.7		<10.0				17.7		
AH-2	1/29/2025	0-1			96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		
AH-3	1/29/2025	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		
AH-4	1/29/2025	0-1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		
AH-5	1/29/2025	0-1			144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		39.2		157.2		118		
		1-2			240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		50.8		13.2		64		50.8		
AH-6	1/29/2025	0-1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		3,000		837		3,837		3,000		
AH-7	1/29/2025	0-1			1,330		<0.050		0.054	GC-NC1	0.311	GC-NC1	2.53	GC-NC1	2.89	GC-NC1	178		2,890		625		3,693		3,068		
AH-8	1/29/2025	0-1			672		<0.050		0.941	GC-NC1	1.31	GC-NC1	13.7	GC-NC1	16	GC-NC1	1,120		8,130		1,270		10,520		9,250		
AH-9	1/29/2025	0-1			144		<0.050		<0.050		0.059	GC-NC1	<0.150		<0.300		19.5		1,810		534		2,364		1,830		
		1-2			304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		73.3		15.2		88.5		73.3		
AH-10	1/29/2025	0-1			96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.7		<10.0		31.7		31.7		

## NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

## QUALIFIERS:

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
SOIL REMEDIATION - NAPP2501444745  
CONOCOPHILLIPS  
LYCHEE STATE COM 001H HEATER RELEASE/FIRE  
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEx <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		Gro		Dro		Ext Dro		Total TPH (Gro+Dro+Ext Dro)	
															C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>		> C <sub>28</sub> - C <sub>36</sub>			
		in. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-1	5/8/2025	1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.4		12.1		30.5	
FS-2	5/8/2025	1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		30.3		<10.0		30.3	
FS-3	5/8/2025	1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		33.4		<10.0		33.4	
FS-4	5/8/2025	1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.1		<10.0		26.1	
FS-5	5/8/2025	1	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
NSW-1	5/8/2025	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.1		16.1		34.2	
WSW-1	5/8/2025	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
WSW-2	5/8/2025	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SSW-1	5/8/2025	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
ESW-1	5/8/2025	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		16.9		16.9	

- 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**

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 422746

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 422746
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2501444745
Incident Name	NAPP2501444745 LYCHEE STATE COM 1H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2204034353] LYCHEE BWS STATE COM 1H - BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Lychee State Com 1H
Date Release Discovered	01/14/2025
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other   Other (Specify)   Crude Oil   Released: 10 BBL   Recovered: 0 BBL   Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	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)	Emergency services were notified Release was confined to the well pad Facility has been cleared by safety personnel

Sante Fe Main Office  
Phone: (505) 476-3441

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

QUESTIONS, Page 2

Action 422746

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 422746
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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	Emergency services were notified Release was confined to the well pad Facility has been cleared by safety personnel

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/21/2025
--	---

Sante Fe Main Office  
Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 422746

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 422746
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<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>	
Requesting a remediation plan approval with this submission	No
<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>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 422746

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 422746
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	1/21/2025



Facility Name & Well Number(s): Lychee State Com 1H				Release Discovery Date & Time: 1/14/25 12:00 AM					
<div>Received by OCD: 7/23/2025 9:25:51 AM</div>				<div>Page 19 of 92</div>					
Provide any known details about the event:				Weld on the heater treater cracked causing a mist to be sprayed out the subsequently caught on fire.		Primary Cause (dropdown):	Weld/HAZ Corrosion	Secondary Cause (dropdown):	Internal Corrosion - Other
				Was the Release to Soil / Caliche (dropdown):	Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)	Release Type (dropdown):		Method of Determination (dropdown):
BU:	Permian	Asset Area:	DBE - Asset Avg.	No	On-Pad	0	Oil		Field Measurement
Known Volume (dropdown):				Yes	Known Volume of Spill (bbl.)				
<div>Released to Imaging: 8/28/2025 9:43:56 AM</div>					10				

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 <b>not</b> 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: Jacob Laird Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jacob Laird Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX B**

### **ARMS Letter**



Sound Science. Creative Solutions.®

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

October 5, 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 Lychee BWS State Com #001H Valve 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 lands managed by the New Mexico State Land Office (NMSLO) approximately 40.2 kilometers (25.0 miles) southwest of Hobbs, NM in T21S R34E, Section 22 (SESW) and T21S R34E, Section 27.

A literature and file search were conducted on September 28, 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) and 1 km (0.62 mile) surrounding the APE. The land the proposed project is located on is part of the June 20, 1910: New Mexico Enabling Act (36 Stat. 557) patented on October 7, 1919.

**Recommendation:**

The project area and surrounding 1 km (0.62 mile) have been subject to thirteen (13) cultural resource surveys, twelve (12) of which are qualifying. Three (3) previously recorded sites are located outside of the project area but within the 1k search buffer. The project area is entirely located on NMSLO-managed lands and is covered by four (4) qualifying surveys conducted within the last ten years (NMCRIS Activity Numbers 136309, 137350, 137737, and 142675) 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 Tables 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



ENVIRONMENTAL CONSULTANTS

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7770 Jefferson Street NE, Suite 410  
 Albuquerque, New Mexico 87109  
 Tel 505.254.1115 Fax 505.254.1116  
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### Archaeological Resources Management Section (ARMS) Review Results

**Table 1: Cultural surveys within 1 kilometer (0.62 mile) of proposed project.**

NMCRIS No.	Performing Organization	Date of Investigation	Acres Surveyed	Sites Visited
32771	Pecos Archaeological Consultants	12/31/1990	88.88	0
132962	Boone Arch Svcs of NM	3/18/2015	60.45	0
136309	Boone Archaeological Consultants, LLC.	7/22/2016	20.19	0
137737	Boone Archaeological Consultants, LLC.	3/21/2017	14.04	0
137350	Lone Mountain Archaeological Services	9/15/2017	39,453.25	324
139333	Boone Archaeological Consultants, LLC.	11/13/2017	464.94	2
142675	Tetra Tech, Inc.	3/15/2019	52	0
142718	Lone Mountain Archaeological Services	3/22/2019	56.26	2
143639	SWCA Environmental Consultants	7/25/2019	7.6	0
144697	Boone Archaeological Consultants, LLC.	11/26/2019	2.47	0
145756	Boone Archaeological Consultants, LLC.	5/1/2020	14.09	0
142944	SWCA Environmental Consultants	3/16/2020	433.68	1
147756	Boone Archaeological Consultants, LLC.	4/7/2021	1.62	0

**Table 1. Cultural resources within 1 kilometer (0.62 mile) of the proposed project area.**

LA No.	Discovering NMCRIS No.	Site Type/Cultural Affiliation and Age	Eligibility	Relationship to APE
187302	137350	Artifact Scatter/Unknown Aboriginal (9500 B.C.–A.D. 1880)	Unevaluated (11/13/2017 HPD Log No. 106514)	Outside
187305	137350	Artifact Scatter/Unknown Aboriginal (A.D. 1100–1500)	Unevaluated (11/13/2017 HPD Log No. 106514)	Outside
193829	142718	Not Listed in NMCRIS	Not Entered in NMCRIS	Outside





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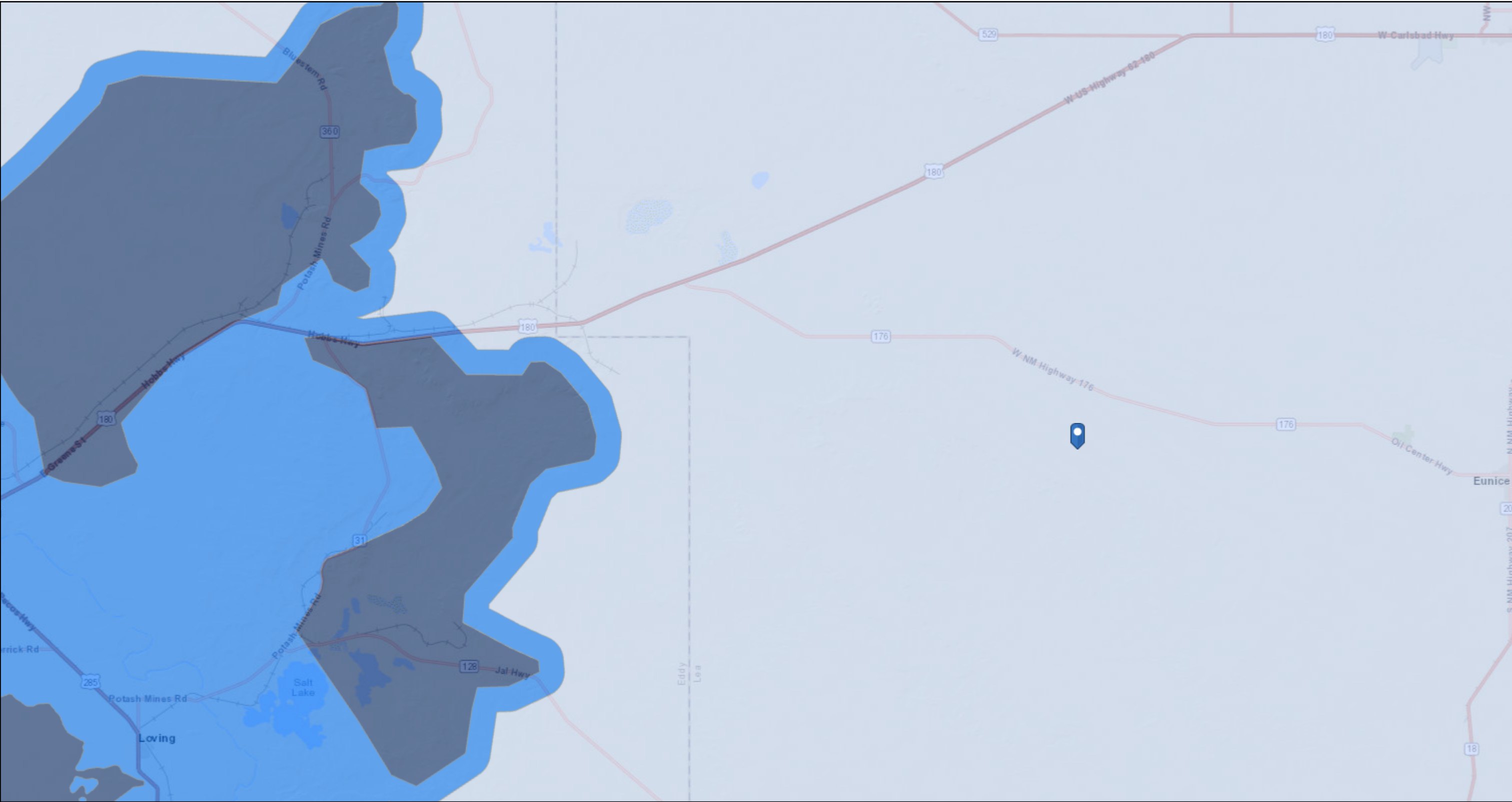
\*Redacted

**Figure 1. NMCRIS screenshot showing location of the proposed Lychee BWS State Com #001H Valve Release Remediation Project area (blue polygon) with 1 km (0.62 mile) buffer area. Previously conducted investigations are brown and yellow polygons, and previously recorded sites are orange and tan polygons.**

## **APPENDIX C**

### **Site Characterization Data**

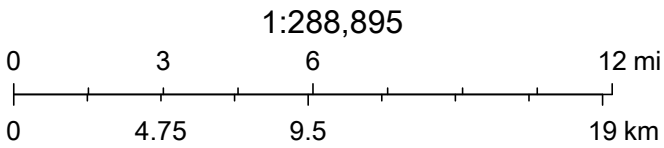
# OCD Karst Potential Map



9/19/2022, 11:19:56 AM

Karst Occurrence Potential

- High
- Medium
- Low



BLM, OCD, New Mexico Tech, Bureau of Land Management, Esri, HERE, Garmin, NGA, USGS, NPS

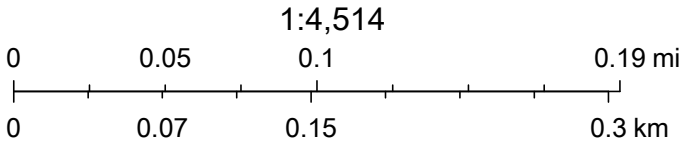


# OCD USGS Well Data Map



9/20/2022, 1:05:53 PM

- ▲ USGS Historical GW Wells
- ▲ USGS Active Monitoring GW Wells



Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, Maxar



212C-MD-02846		<b>TETRA TECH</b>		<b>LOG OF BORING DTW</b>			Page 1 of 1	
Project Name: Lychee BWS State Com #001H								
Borehole Location: GPS Coordinates: 32.457595°, -103.455101°				Surface Elevation: 3694 ft				
Borehole Number: DTW			Borehole Diameter (in.): 8	Date Started: 7/19/2023		Date Finished: 7/19/2023		

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			While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:			
5												2			
												3			
10												19			
15												24			
20												34			
25															
30															
35															
40															
45															
50															
55															

-- Cuttings collected at 54 to 55 feet, soil sample dry

Bottom of borehole at 55.0 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
----------------------------	--------------------------------	-------------------------------



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 01066 POD1</a>	CP	LE		4	3	2	28	21S	34E	643735	3591345	1614	210	140	70
<a href="#">CP 01069 POD1</a>	CP	LE		2	1	4	28	21S	34E	643737	3591191	1698	210	140	70

Average Depth to Water: 140 feet

Minimum Depth: 140 feet

Maximum Depth: 140 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 645110.91

Northing (Y): 3592189.94

Radius: 1700

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.

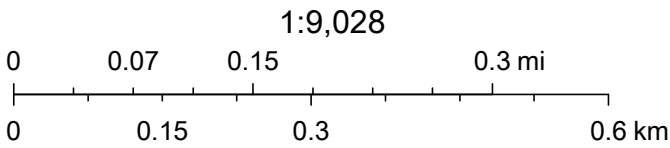


# OCD Waterbodies Map



9/20/2022, 12:17:39 PM

- OSW Water Bodys
- OSE Probable Playas



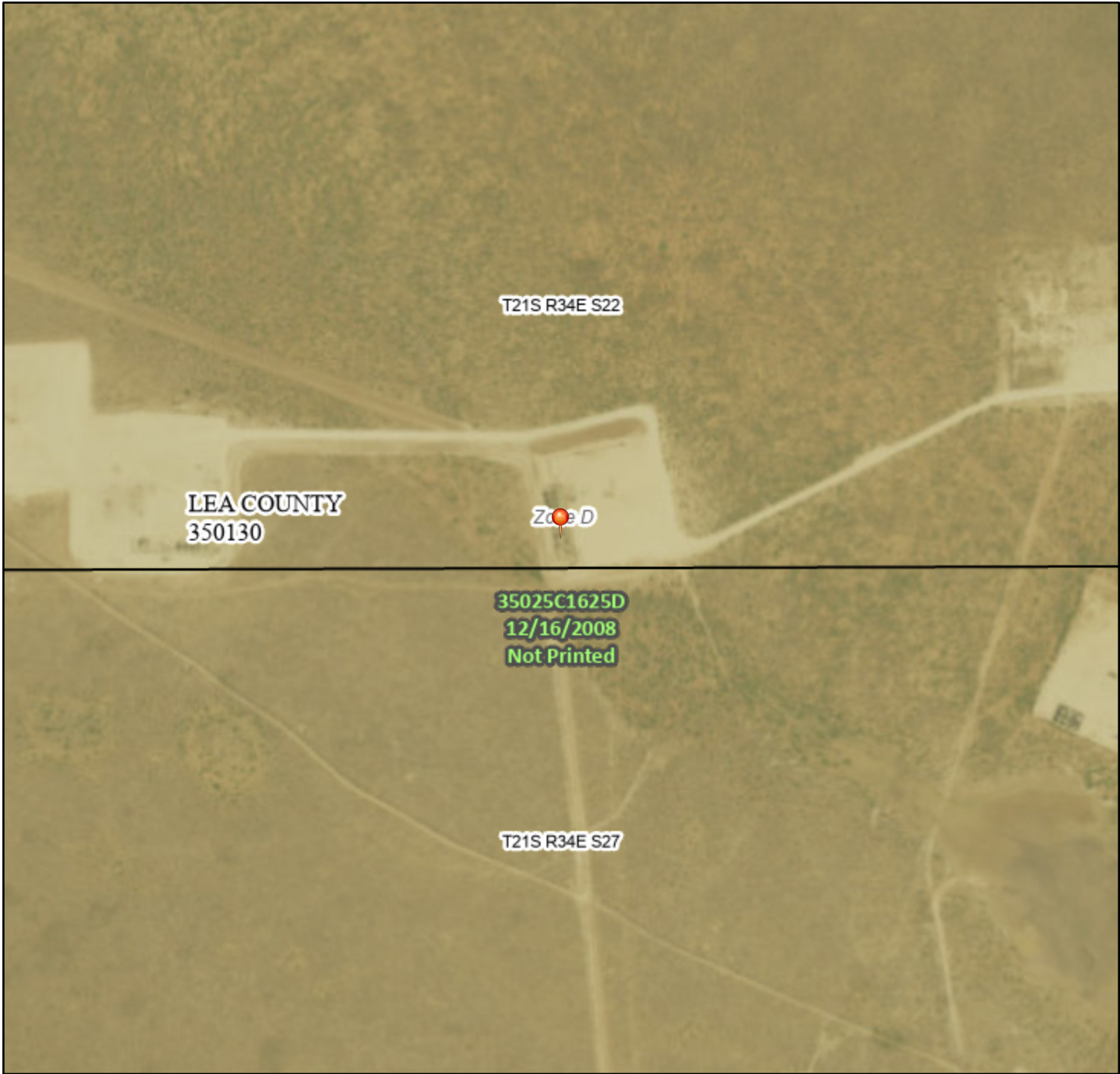
Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar, NM  
OSE



# National Flood Hazard Layer FIRMette



103°27'41"W 32°27'42"N



## Legend

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

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

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



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 **10/5/2022 at 3:45 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

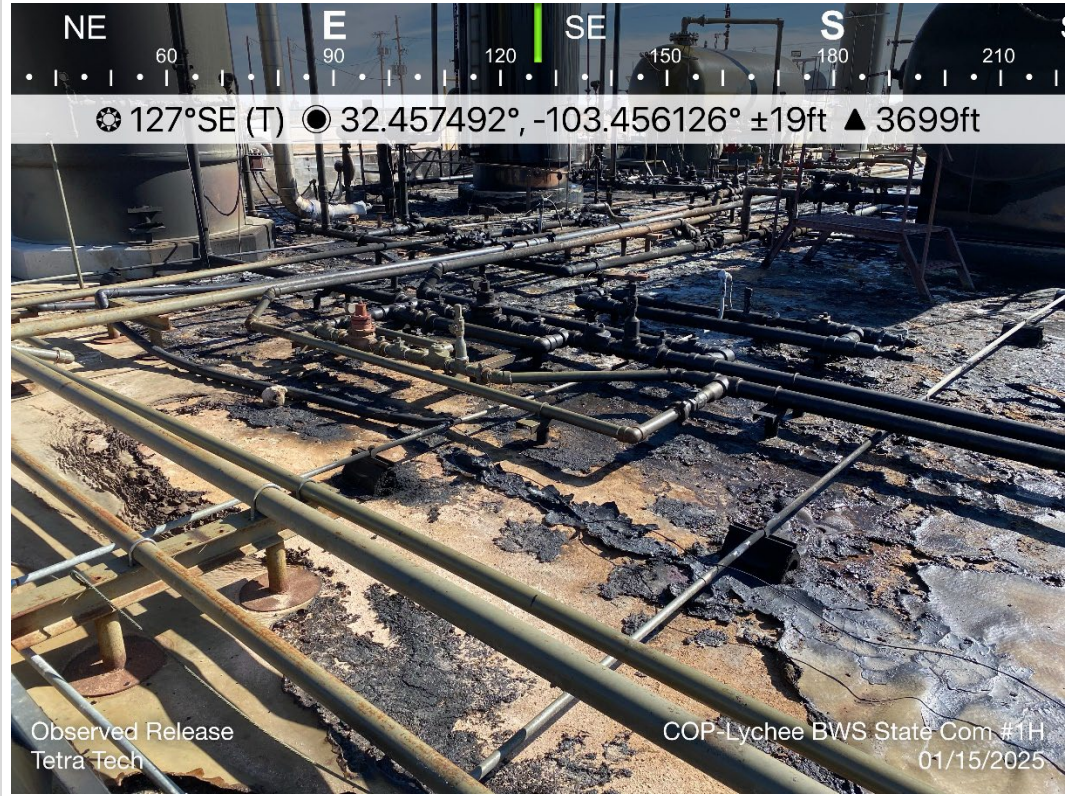
## **APPENDIX D**

# **Photographic Documentation**





TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View West. Lychee State 1H Signage.	1
	SITE NAME	Lychee State Com 1H	01/15/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View southeast. View of release area. View or infrastructure and burned liner.	2
	SITE NAME	Lychee State Com 1H	01/15/2025



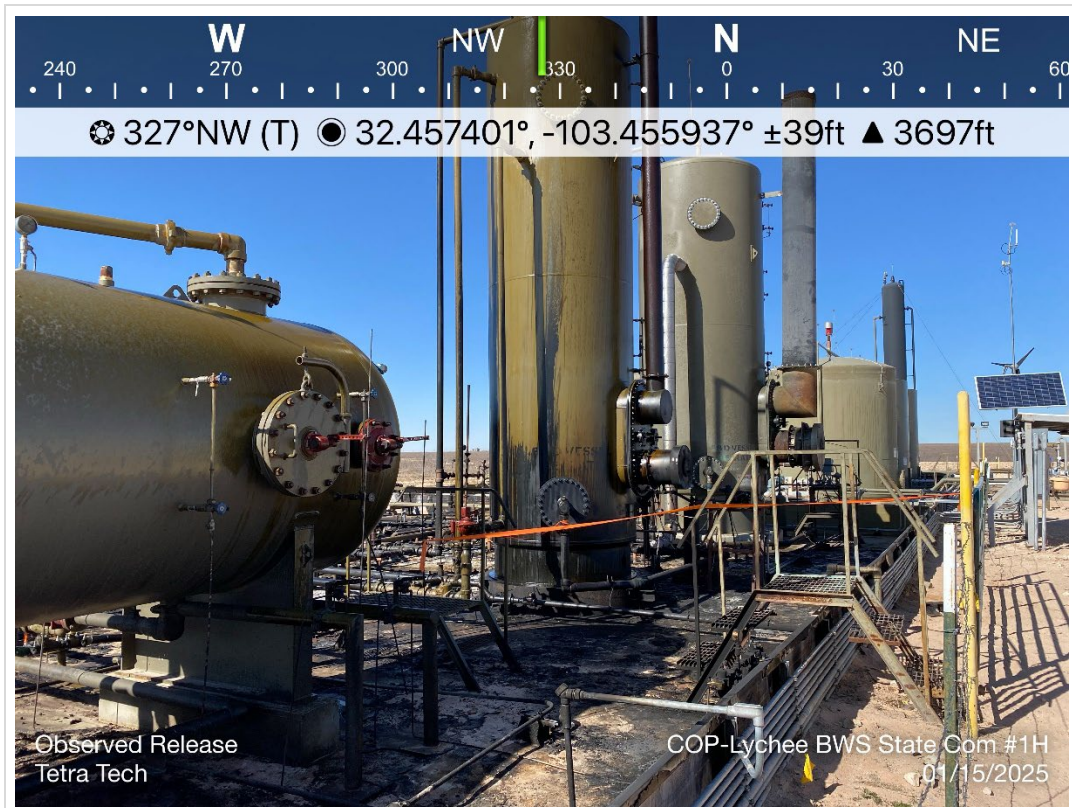


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View south. View of surface lines and production equipment. View of release area and burned liner.	3
	SITE NAME	Lychee State Com 1H	01/15/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View south. View of contained release area. Production equipment and subsurface lines present.	4
	SITE NAME	Lychee State Com 1H	01/15/2025



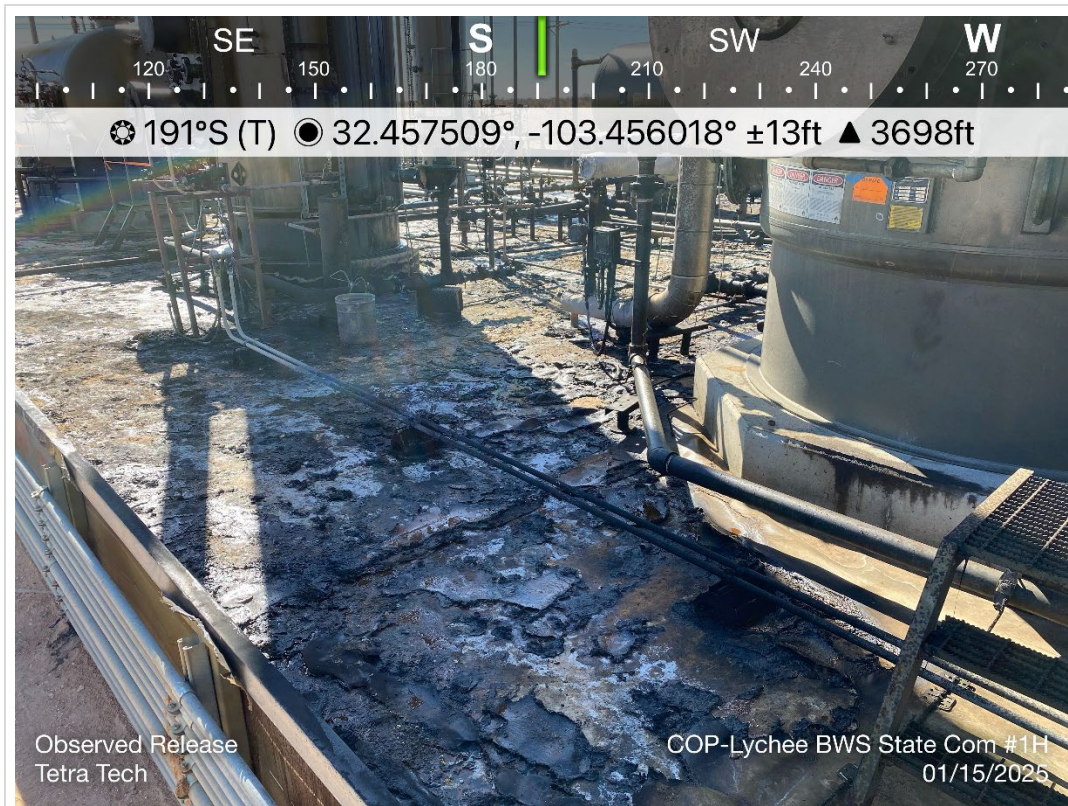


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View northwest. View of release area within a heavily congested production area. Release was contained in the facility.	5
	SITE NAME	Lychee State Com 1H	01/15/2025

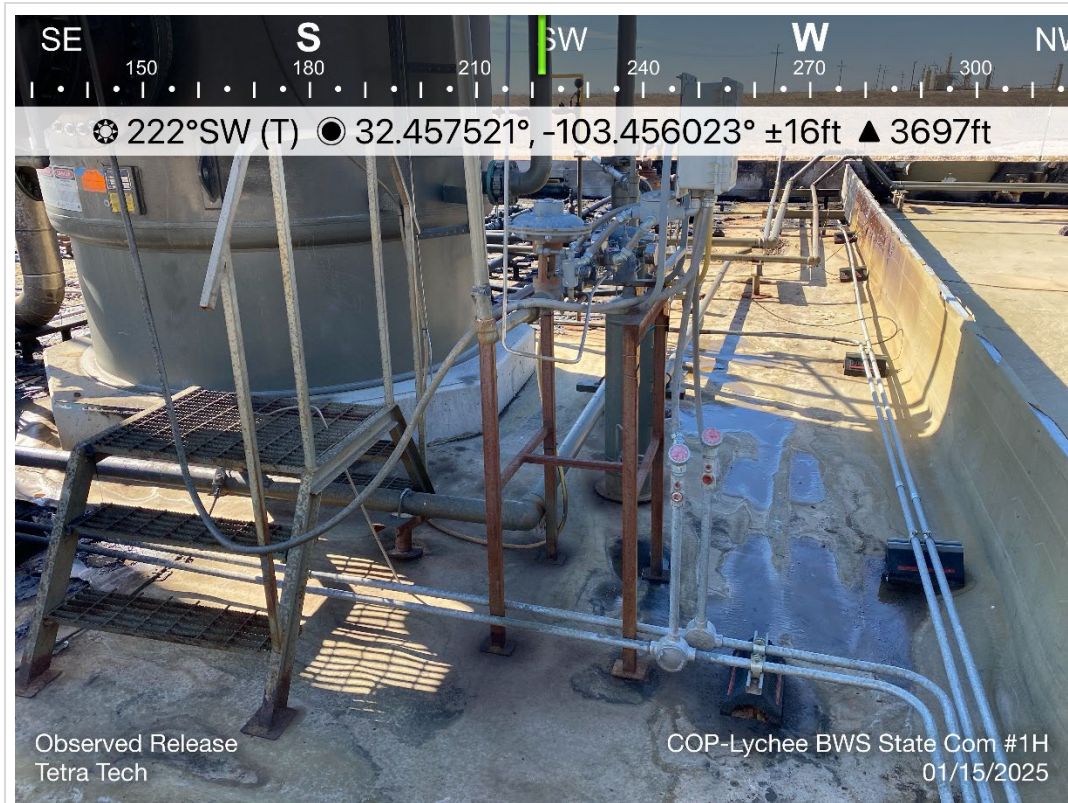


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View southwest. View of contained release area. View of production equipment.	6
	SITE NAME	Lychee State Com 1H	01/15/2025



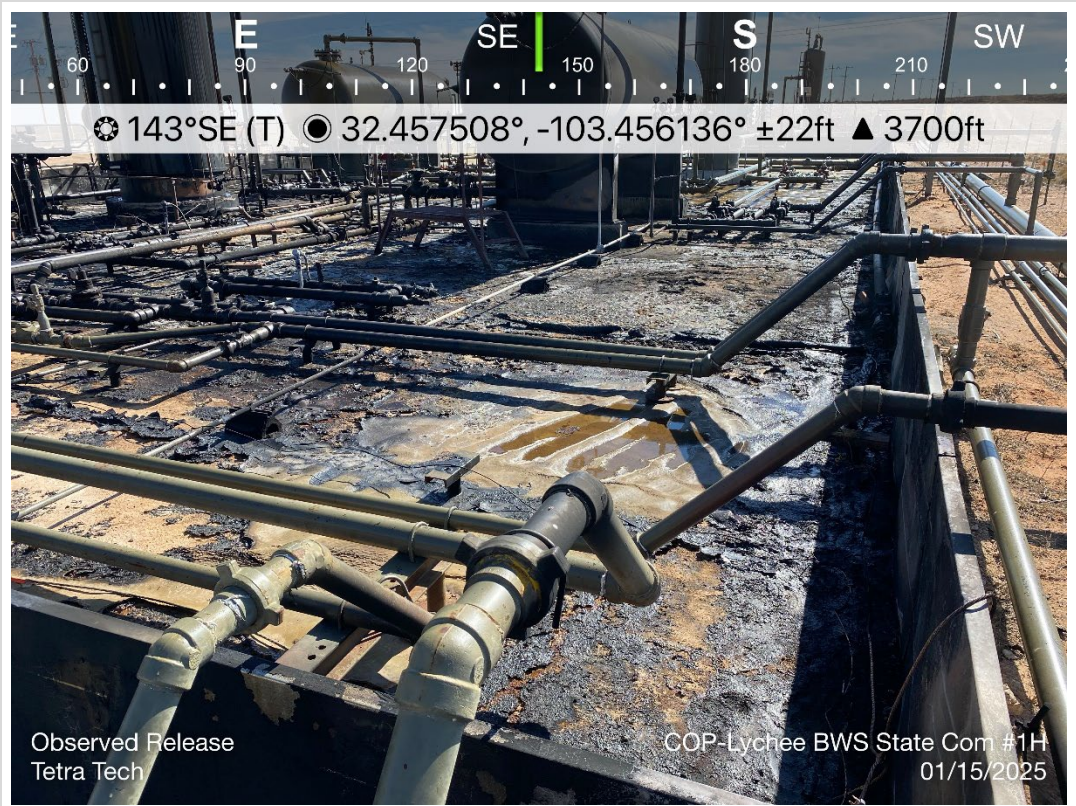


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View South. View of release area. Congested area with production equipment and surface lines.	7
	SITE NAME	Lychee State Com 1H	01/15/2025

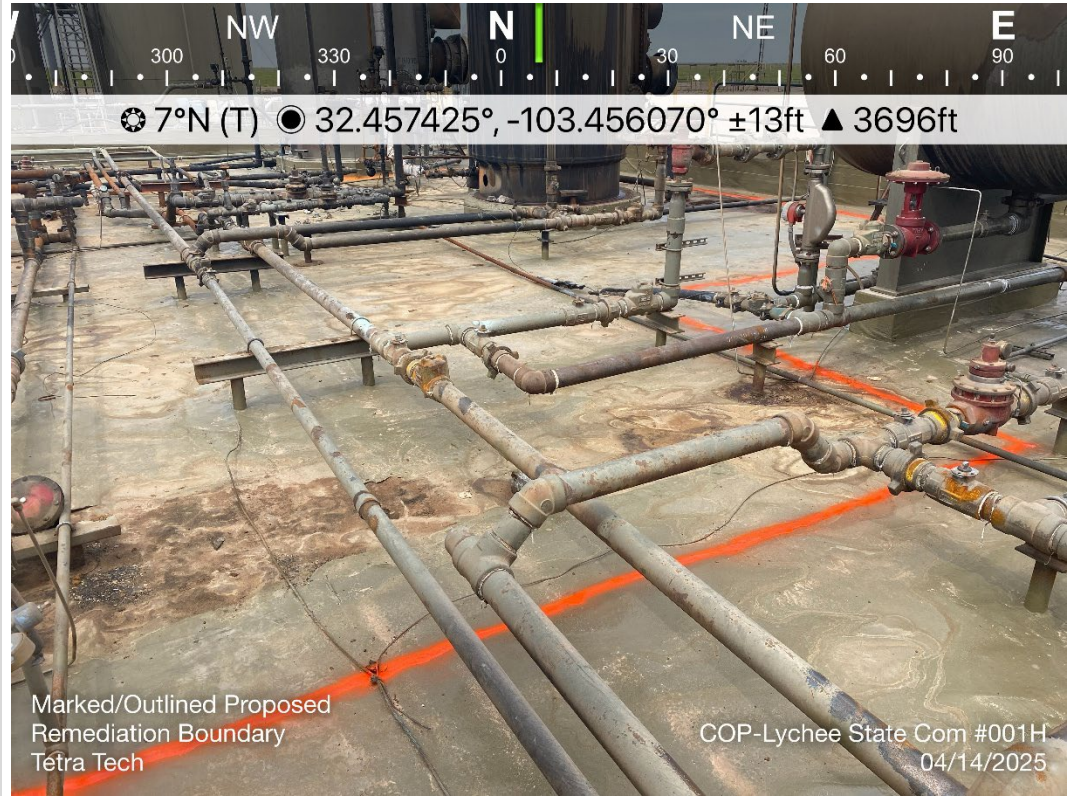


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View southwest. Outside release area, liner intact.	8
	SITE NAME	Lychee State Com 1H	01/15/2025



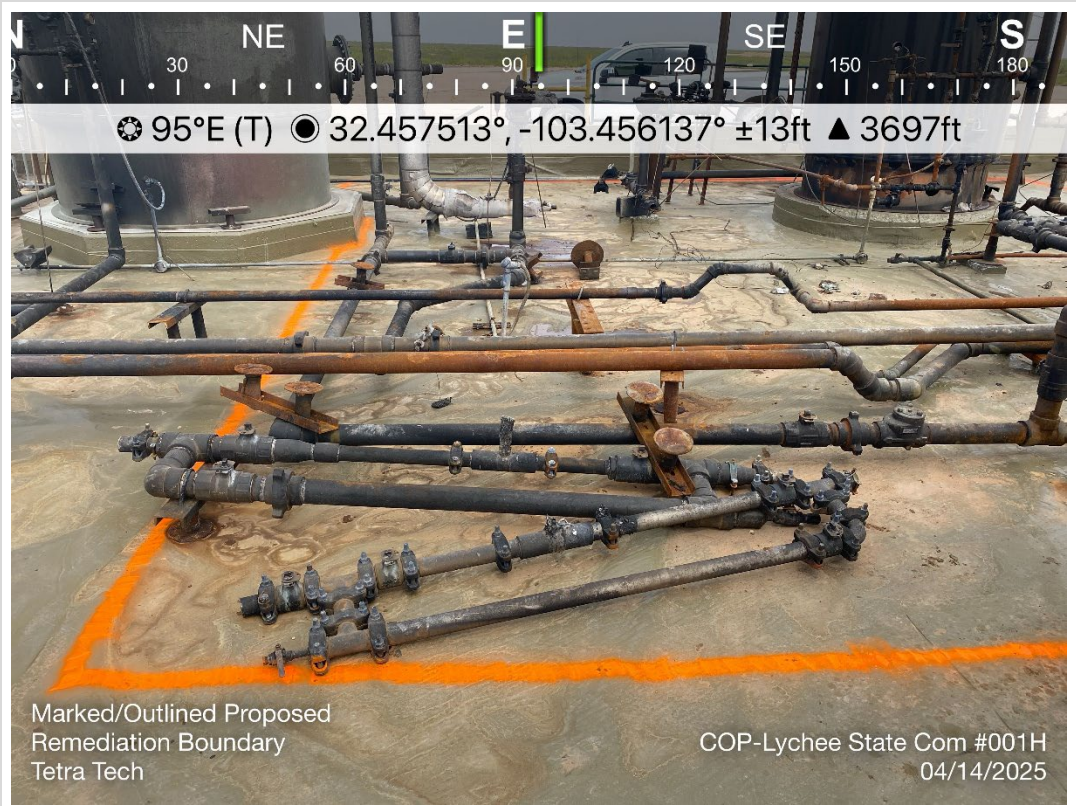


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View east. Overview of release extent inside containment area. Congested area with surface lines.	9
	SITE NAME	Lychee State Com 1H	01/15/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View North. View of marked area to be removed and excavated.	10
	SITE NAME	Lychee State Com 1H	4/14/2025





TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View East. Overview of release extent on pad.	11
	SITE NAME	Lychee State Com 1H	01/15/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View of remedial activities. Excavation area is still moist from hydrovac activities.	12
	SITE NAME	Lychee State Com 1H	5/2/2025



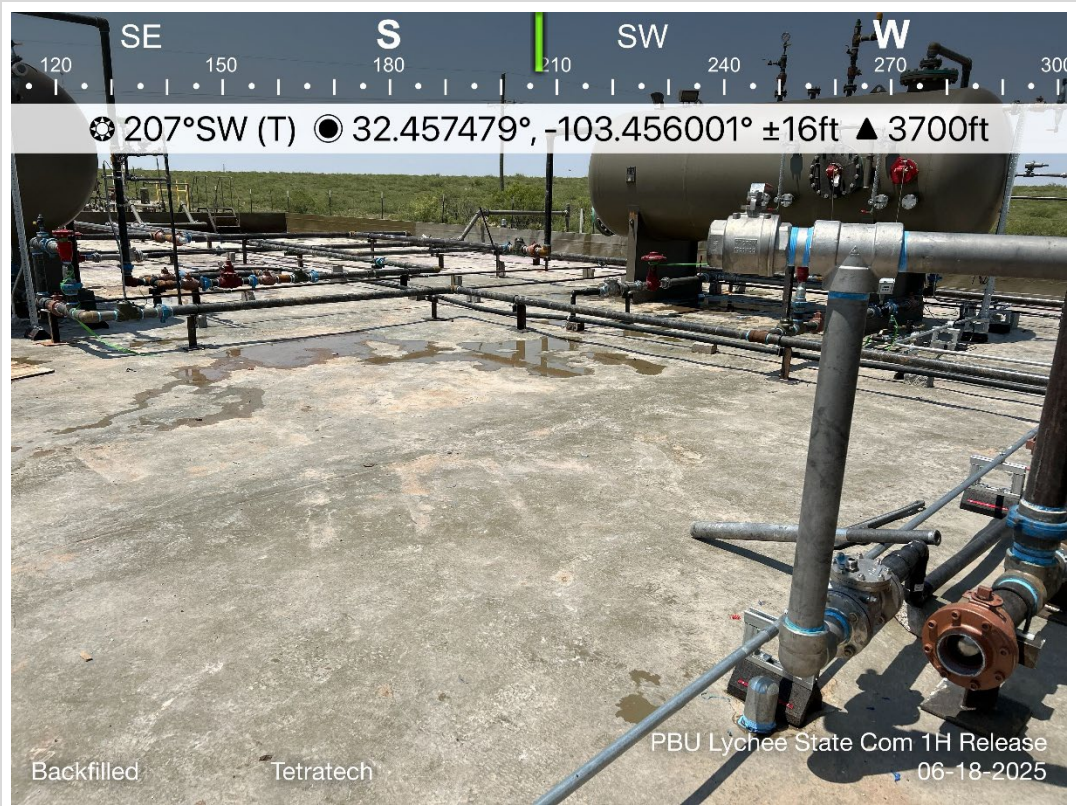


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View of remedial action area, post hydro excavation activities.	13
	SITE NAME	Lychee State Com 1H	5/2/2025

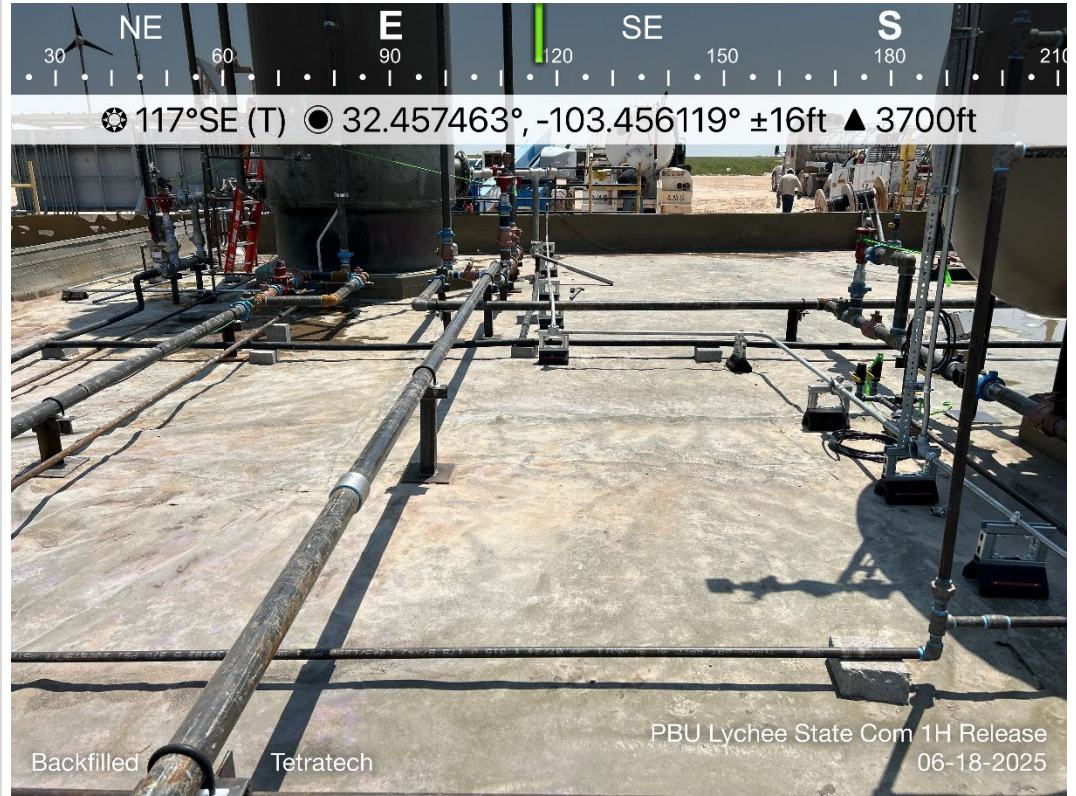


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View of remedial activities. Photograph taken after a rain event for which the excavation was filled with rainwater.	14
	SITE NAME	Lychee State Com 1H	5/7/2025



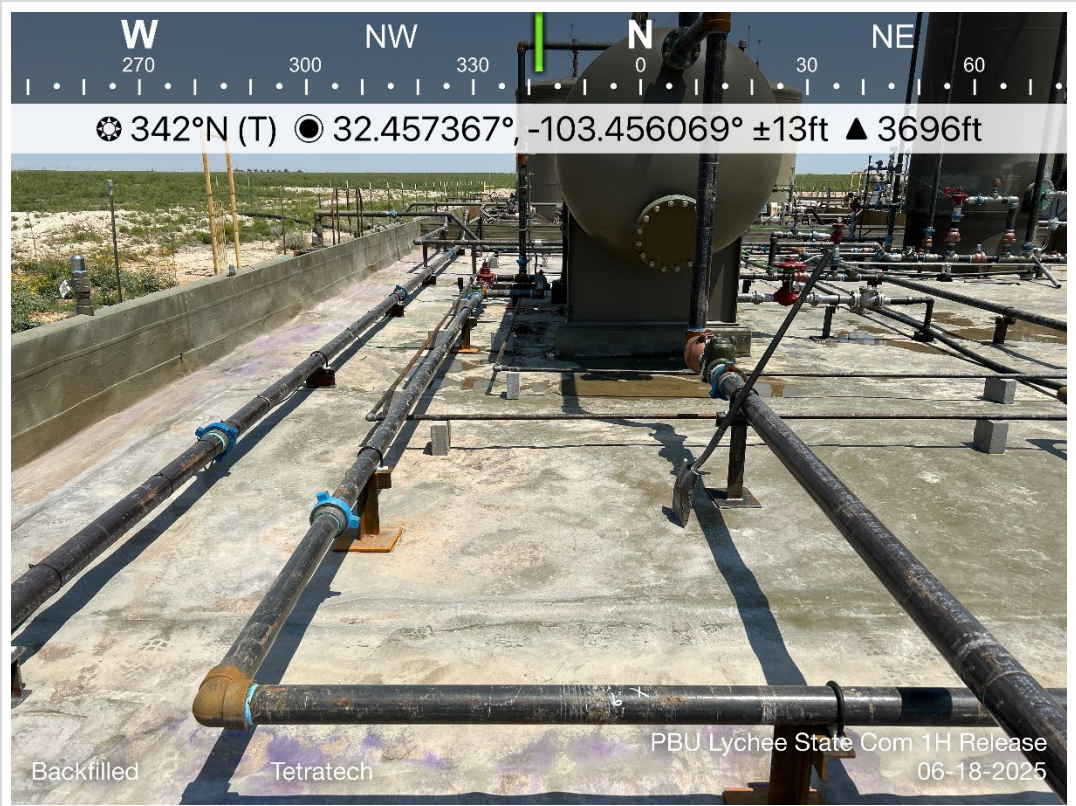


TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View south southwest. View of backfilled area and liner re-installed.	15
	SITE NAME	Lychee State Com 1H	6/18/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View East. View of post remedial activities.	16
	SITE NAME	Lychee State Com 1H	6/18/2025





TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View north. View of backfilled area and liner re-installed.	17
	SITE NAME	Lychee State Com 1H	6/18/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03756	DESCRIPTION	View east. View of backfilled area and liner re-installed.	18
	SITE NAME	Lychee State Com 1H	6/18/2025

## **APPENDIX E**

### **Laboratory Analytical Data**



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

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February 03, 2025

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LYCHEE STATE COM #001H HEATER TREATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/29/25 12:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 1 ( 0-1' ) (H250529-01)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2025	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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	17.7	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 2 ( 0-1' ) (H250529-02)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/30/2025	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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 3 ( 0-1' ) (H250529-03)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42	
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11	
Total BTX	<0.300	0.300	01/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2025	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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 4 ( 0-1' ) (H250529-04)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/30/2025	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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 103 % 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  
 LISBETH CHAVIRA  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 5 ( 0-1' ) (H250529-05)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/30/2025	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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	118	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	39.2	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 5 ( 1'-2' ) (H250529-06)**

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	01/30/2025	ND	1.94	97.2	2.00	8.42		
Toluene*	<0.050	0.050	01/30/2025	ND	2.11	106	2.00	4.18		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.16	108	2.00	3.24		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.21	103	6.00	4.11		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	50.8	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	13.2	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 6 ( 0-1' ) (H250529-07)**

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	01/30/2025	ND	1.99	99.6	2.00	0.943		
Toluene*	<0.050	0.050	01/30/2025	ND	2.10	105	2.00	0.959		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.15	108	2.00	1.44		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.58	110	6.00	1.11		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	3000	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	837	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 7 ( 0-1' ) (H250529-08)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	1.99	99.6	2.00	0.943	
Toluene*	<b>0.054</b>	0.050	01/31/2025	ND	2.10	105	2.00	0.959	GC-NC1
Ethylbenzene*	<b>0.311</b>	0.050	01/31/2025	ND	2.15	108	2.00	1.44	GC-NC1
Total Xylenes*	<b>2.53</b>	0.150	01/31/2025	ND	6.58	110	6.00	1.11	GC-NC1
Total BTEX	<b>2.89</b>	0.300	01/31/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 223 % 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	<b>1330</b>	16.0	01/30/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>178</b>	10.0	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	<b>2890</b>	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<b>625</b>	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 159 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 8 ( 0-1' ) (H250529-09)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2025	ND	1.99	99.6	2.00	0.943	
<b>Toluene*</b>	<b>0.941</b>	0.050	01/31/2025	ND	2.10	105	2.00	0.959	GC-NC1
<b>Ethylbenzene*</b>	<b>1.31</b>	0.050	01/31/2025	ND	2.15	108	2.00	1.44	GC-NC1
<b>Total Xylenes*</b>	<b>13.7</b>	0.150	01/31/2025	ND	6.58	110	6.00	1.11	GC-NC1
<b>Total BTEX</b>	<b>16.0</b>	0.300	01/31/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 294 % 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
<b>Chloride</b>	<b>672</b>	16.0	01/30/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1120</b>	10.0	01/30/2025	ND	207	104	200	1.79	
<b>DRO &gt;C10-C28*</b>	<b>8130</b>	10.0	01/30/2025	ND	203	101	200	1.64	
<b>EXT DRO &gt;C28-C36</b>	<b>1270</b>	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 161 % 48.2-134

Surrogate: 1-Chlorooctadecane 173 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 9 ( 0-1' ) (H250529-10)**

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	01/30/2025	ND	1.83	91.3	2.00	0.0729		
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208		
Ethylbenzene*	0.059	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	GC-NC1	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	<b>144</b>	16.0	01/30/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	19.5	10.0	01/30/2025	ND	207	104	200	1.79		
DRO >C10-C28*	1810	10.0	01/30/2025	ND	203	101	200	1.64		
EXT DRO >C28-C36	534	10.0	01/30/2025	ND						

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 165 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 9 ( 1'-2' ) (H250529-11)**

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	01/30/2025	ND	1.83	91.3	2.00	0.0729		
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	304	16.0	01/30/2025	ND	400	100	400	3.92		

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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	73.3	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	15.2	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/29/2025	Sampling Date:	01/29/2025
Reported:	02/03/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Tamara Oldaker
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: AH - 10 ( 0-1' ) (H250529-12)**

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	01/30/2025	ND	2.22	111	2.00	3.34		
Toluene*	<0.050	0.050	01/30/2025	ND	2.26	113	2.00	2.22		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.28	114	2.00	2.14		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.95	116	6.00	2.55		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	96.0	16.0	01/30/2025	ND	400	100	400	3.92	

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	01/30/2025	ND	207	104	200	1.79	
DRO >C10-C28*	31.7	10.0	01/30/2025	ND	203	101	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

**Company Name:** Tetra Tech

**Project Manager:** Lisbeth Chavira

**Address:** 8911 Capital o Texas Hwy, Suite 2310

**City:** Austin **State:** TX **Zip:**

**Phone #:** (512)565-0190 **Fax #:**

**Project #:** 212C-MD-03756 **Project Owner:** ConocoPhillips

**Project Name:** Lychee State Com #001H Heater Treater Release

**Project Location:** Lea County, New Mexico

**Sampler Name:** Colton Bickert

**Lab I.D.:**

**P.O. #:**

**Company:** Tetra Tech

**Attn:** Lisbeth Chavira

**Address:** EMAIL

**City:**

**State:** Zip:

**Phone #:**

**Fax #:**

**BILL TO**

**ANALYSIS REQUEST**

Sample I.D.	(G)RAB OR (C)COMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTX 8021B	Chloride SM4500Cl-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:					
1 AH-1 (0-1')	G	1	X						1/29/2025		X	X	X
2 AH-2 (0-1')	G	1	X						1/29/2025		X	X	X
3 AH-3 (0-1')	G	1	X						1/29/2025		X	X	X
4 AH-4 (0-1')	G	1	X						1/29/2025		X	X	X
5 AH-5 (0-1')	G	1	X						1/29/2025		X	X	X
6 AH-5 (1-2')	G	1	X						1/29/2025		X	X	X
7 AH-6 (0-1')	G	1	X						1/29/2025		X	X	X
8 AH-7 (0-1')	G	1	X						1/29/2025		X	X	X
9 AH-8 (0-1')	G	1	X						1/29/2025		X	X	X
10 AH-9 (0-1')	G	1	X						1/29/2025		X	X	X

PLEASE NOTE: Laboratory and client's analysis results for any other testing shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis.

Client's liability and client's analysis results for any other testing shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis.

**Relinquished By:** Colton Bickert

**Date:** 1/29/25

**Time:** 1:00 PM

**Received By:** [Signature]

**Date:** 1/29/25

**Time:**

**Verbal Result:** ☐ Yes ☐ No

**Add'l Phone #:**

**Remarks:**

**Delivered By:** (Circle One)

**Sampler - UPS - Bus - Other:**

**Observed Temp. °C:** 44.5

**Corrected Temp. °C:** 3.7

**Sample Condition:** ☒ Cool ☐ Hot ☐ Ice

**Checked By:** [Signature]

**Thermometer ID:** #140

**Correction Factor:** 0.0

**Turnaround Time:** Standard ☒ Rush ☐ Next Business Day

**Observed Temp. °C:**

**Corrected Temp. °C:**

**Remarks:**



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: Lisbeth Chavira

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

Phone #: (512)565-0190

Fax #: (512)565-0190

Project #: 212C-MD-03756

Project Name: Lychee State Com #001H Heater Treater Release

Project Location: Lea County, New Mexico

Sampler Name: Colton Bickerstaff

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

11 AH-9 (1-2)

12 AH-10 (0-1')

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Tetra Tech

Attn: Lisbeth Chavira

Address: EMAIL

City:

State:

Zip:

Phone #:

Fax #:

Date: 1/29/25

Time: 12:23

Date:

Time:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes

No

Checked By:

(Initials)

Turnaround Time:

Standard

Verbal Result:

Yes

No

Remarks:

Thermometer ID

Correction Factor

Observed Temp. °C

Corrected Temp. °C

Yes

No

Yes

No

Yes

No

Add'l Phone #:



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

May 14, 2025

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LYCHEE STATE COM #001H HEATER TREATER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/08/25 15:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: NSW - 1 (H252764-01)**

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	05/09/2025	ND	2.08	104	2.00	1.31	
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	18.1	10.0	05/08/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	16.1	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 65.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: WSW - 1 (H252764-02)**

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	05/09/2025	ND	2.08	104	2.00	1.31	
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: WSW - 2 (H252764-03)**

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	05/09/2025	ND	2.08	104	2.00	1.31		
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 68.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: ESW - 1 (H252764-04)**

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	05/09/2025	ND	2.08	104	2.00	1.31	
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58	
Total BTX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	16.9	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: SSW - 1 (H252764-05)**

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	05/09/2025	ND	2.08	104	2.00	1.31		
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58		
Total BTEx	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 74.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: FS - 1 (H252764-06)**

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	05/09/2025	ND	2.08	104	2.00	1.31	
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58	
Total BTEx	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	185	92.6	200	0.128	
DRO >C10-C28*	18.4	10.0	05/09/2025	ND	202	101	200	0.716	
EXT DRO >C28-C36	12.1	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 71.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: FS - 2 (H252764-07)**

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	05/09/2025	ND	2.08	104	2.00	1.31		
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58		
Total BTX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	173	86.4	200	5.99	
DRO >C10-C28*	30.3	10.0	05/08/2025	ND	168	84.2	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: FS - 3 (H252764-08)**

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	05/09/2025	ND	2.08	104	2.00	1.31	
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58	
Total BTEX	<0.300	0.300	05/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	173	86.4	200	5.99	
DRO >C10-C28*	33.4	10.0	05/08/2025	ND	168	84.2	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: FS - 4 (H252764-09)**

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	05/09/2025	ND	2.08	104	2.00	1.31		
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58		
Total BTEx	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	173	86.4	200	5.99	
DRO >C10-C28*	26.1	10.0	05/08/2025	ND	168	84.2	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	LYCHEE STATE COM #001H HEATER TRI	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03756	Sample Received By:	Alyssa Parras
Project Location:	COP- LEA COUNTY, NM		

**Sample ID: FS - 5 (H252764-10)**

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	05/09/2025	ND	2.08	104	2.00	1.31		
Toluene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.19	109	2.00	1.30		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.49	108	6.00	1.58		
Total BTEx	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	173	86.4	200	5.99	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	168	84.2	200	7.09	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Lisbeth Chavira

P.O. #:

Address: 8911 Capital o Texas Hwy, Suite 2310

Company: Tetra Tech

City: Austin

State: TX Zip:

Attn: Lisbeth Chavira

Phone #: (512)565-0190

Fax #:

Address: EMAIL

Project #:

Project Owner: ConocoPhillips

City:

Project Name: Lychee State Com #001H Heater Treater Release

State: Zip:

Project Location: Lea County, New Mexico

Phone #:

Sampler Name: William Erlendson

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST									
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				TPH 8015M	BTEX 8021B	Chloride SM4500CI-B							
NSW-1	C	1	X							5/8/2025	13:00	X	X	X							
WSW-1	C	1	X							5/8/2025	13:15	X	X	X							
WSW-2	C	1	X							5/8/2025	13:15	X	X	X							
ESW-1	C	1	X							5/8/2025	13:30	X	X	X							
SSW-1	C	1	X							5/8/2025	13:45	X	X	X							
FS-1	C	1	X							5/8/2025	14:00	X	X	X							
FS-2	C	1	X							5/8/2025	14:15	X	X	X							
FS-3	C	1	X							5/8/2025	14:25	X	X	X							
FS-4	C	1	X							5/8/2025	14:35	X	X	X							
FS-5	C	1	X							5/8/2025	14:45	X	X	X							

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Relinquished By: William B. Erlendson

Date: 5/8/2025

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

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

Relinquished By:

Date: 5/8/2025

Received By:

REMARKS:

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: (Initials)

Turnaround Time: Standard ☒ Rush ☐ ☐ Cool ☐ Intact ☐  
Thermometer ID #113 ± 1.40  
Correction Factor -0.5°C +0.3°C

Backlog (only) Sample Condition  
Yes ☐ No ☐  
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

## **APPENDIX F**


### **Regulatory Correspondence**

**Chavira, Lisbeth**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Tuesday, April 15, 2025 3:14 PM  
**To:** Chavira, Lisbeth  
**Cc:** Llull, Christian; Jacob.Laird@conocophillips.com; Bratcher, Michael, EMNRD; Rodgers, Scott, EMNRD  
**Subject:** (Extension Approval) - Lychee State Com 1H Release - NAPP2501444745

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

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

RE: Incident #**NAPP2501444745 LYCHEE STATE COM 1H**

**Lisbeth,**

A 90-day extension is approved. Please have a remediation closure report uploaded to the OCD Permitting Portal no later than **July 14th, 2025**. Please include this e-mail correspondence in the report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@emnrd.nm.gov](mailto:robert.hamlet@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>  
**Sent:** Tuesday, April 15, 2025 11:26 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request - Lychee State Com 1H Release - NAPP2501444745

**Scott Rodgers** • Environmental Specialist – Adv.  
Environmental Bureau  
EMNRD - Oil Conservation Division  
5200 Oakland NE, Suite B | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



**From:** Chavira, Lisbeth <[LISBETH.CHAVIRA@tetrattech.com](mailto:LISBETH.CHAVIRA@tetrattech.com)>  
**Sent:** Monday, April 14, 2025 3:29 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Llull, Christian <[Christian.Llull@tetrattech.com](mailto:Christian.Llull@tetrattech.com)>; Laird, Jacob <[Jacob.Laird@conocophillips.com](mailto:Jacob.Laird@conocophillips.com)>  
**Subject:** [EXTERNAL] Extension Request - Lychee State Com 1H Release - NAPP2501444745

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To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until July 13, 2025) to complete reporting for the Lychee State Com 1H Release (NAPP2501444745).

The Notification of Release (NOR) for this release was received by NMOCD on January 14, 2025.

ConocoPhillips immediately commenced pursuing a 90-day (April 14, 2025) release characterization and closure per 19.15.29.11(A) NMAC.

The release was due to a cracked weld causing oil to be sprayed out, which was subsequently ignited by the heater treater.

Approximately 10 bbls of crude oil were reported released, of which 0 bbls were recovered.

On January 29, 2025, Tetra Tech personnel were on site to assess the release. A total of ten hand auger borings were installed around and within the release footprint.

The release occurred inside a falcon lined facility, multiple vessels, surface steel lines and production equipment are within the release area.

The battery facility is congested with lines and vessels. ConocoPhillips initially wished to pursue a deferral for the impacts inside the facility. The liner was repaired.

However, based on internal correspondence, COP has pivoted to the process of conducting targeted remedial activities, in order to remove the heaviest impacts onsite.

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

- Targeted remedial activities.
- Confirmation sampling.
- Completion of the report for OCD review.

Once remedial activities are completed and the collected sampling data is tabulated and evaluated, a report will be submitted to the OCD.

Thank you in advance.

**Lisbeth Chavira** | Geoscientist  
Direct Mobile +1 (512) 596-8201 | [Lisbeth.chavira@tetrattech.com](mailto:Lisbeth.chavira@tetrattech.com)

**Tetra Tech** | *Leading with Science*® | OGA  
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | [tetrattech.com](http://tetrattech.com)



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TETRA TECH

**Chavira, Lisbeth**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Sent:** Monday, May 5, 2025 11:26 AM  
**To:** Llull, Christian  
**Cc:** Chavira, Lisbeth; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD  
**Subject:** RE: [EXTERNAL] Re: (Variance Denied) - C-141N Variance Request - nAPP2501444745

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

Christian,

We'll look at trying to retract it. Please, submit a new sampling notification that meets the 2-business day requirement.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@emnrd.nm.gov](mailto:robert.hamlet@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Llull, Christian <Christian.Llull@tetrattech.com>  
**Sent:** Monday, May 5, 2025 10:22 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Re: (Variance Denied) - C-141N Variance Request - nAPP2501444745

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Thanks for letting me know. Can you retract the C-141N?

Christian

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Sent:** Monday, May 5, 2025 11:20:27 AM  
**To:** Llull, Christian <[Christian.Llull@tetrattech.com](mailto:Christian.Llull@tetrattech.com)>  
**Cc:** Chavira, Lisbeth <[LISBETH.CHAVIRA@tetrattech.com](mailto:LISBETH.CHAVIRA@tetrattech.com)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Subject:** (Variance Denied) - C-141N Variance Request - nAPP2501444745

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Christian,

There needs to be an unusual, extraordinary, or atypical reason for the 2-business day confirmation sampling notification to not be given in time. Having an incident area ready for sampling earlier than expected does not fall into this category. The variance request is denied.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | [robert.hamlet@emnrd.nm.gov](mailto:robert.hamlet@emnrd.nm.gov)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, May 5, 2025 9:25 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] C-141N Variance Request - nAPP2501444745

---

**From:** Llull, Christian <[christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com)>  
**Sent:** Monday, May 5, 2025 8:41 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; ocdonline, emnrd, EMNRD <[emnrd.ocdonline@emnrd.nm.gov](mailto:emnrd.ocdonline@emnrd.nm.gov)>  
**Cc:** Chavira, Lisbeth <[LISBETH.CHAVIRA@tetrattech.com](mailto:LISBETH.CHAVIRA@tetrattech.com)>  
**Subject:** [EXTERNAL] C-141N Variance Request - nAPP2501444745

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Good morning,

Tetra Tech is requesting a variance to conduct confirmation sampling with less than 48 hours' notice. The C-141N has been submitted (below).

The release incident occurred in a battery facility and hydro-excavation operations were conducted over the weekend. The incident area is ready for sampling earlier than expected, thus, our variance request for sampling the nAPP2501444745 release tomorrow, May 6, 2025. Please let me know if you have any questions.

Thank you in advance.

Christian

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>

**Sent:** Monday, May 5, 2025 9:28 AM

**To:** Llull, Christian <[christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com)>

**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 458294

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2501444745.

The sampling event is expected to take place:

**When:** 05/06/2025 @ 11:00

**Where:** O-22-21S-34E 0 FNL 0 FEL (32.45743333,-103.4560638)

**Additional Information:** Lychee State Com 001H Heater Release/Fire  
Lea County, New Mexico

**Additional Instructions:** Approximate Release GPS: 32.45743333, -103.4560638

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



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 458294

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 458294
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501444745
Incident Name	NAPP2501444745 LYCHEE STATE COM 1H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204034353] LYCHEE BWS STATE COM 1H - BATTERY

Location of Release Source	
Site Name	Lychee State Com 1H
Date Release Discovered	01/14/2025
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,280
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/06/2025
Time sampling will commence	11:00 AM
 <b>Warning: Notification can not be less than two business days prior to conducting final sampling.</b>  	
Please provide any information necessary for observers to contact samplers	Lychee State Com 001H Heater Release/Fire Lea County, New Mexico
Please provide any information necessary for navigation to sampling site	Approximate Release GPS: 32.45743333, -103.4560638

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

CONDITIONS

Action 458294

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 458294
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cllull	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.	5/5/2025

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 458544

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 458544
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2501444745
Incident Name	NAPP2501444745 LYCHEE STATE COM 1H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2204034353] LYCHEE BWS STATE COM 1H - BATTERY

Location of Release Source	
Site Name	Lychee State Com 1H
Date Release Discovered	01/14/2025
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,280
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Contact Will Erlendson at 432-895-9810
Please provide any information necessary for navigation to sampling site	SITE GPS 32.457409° -103.456061°

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 458544

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 458544
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cllull	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.	5/5/2025



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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

QUESTIONS

Action 487941

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 487941
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2501444745
Incident Name	NAPP2501444745 LYCHEE STATE COM 1H @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2204034353] LYCHEE BWS STATE COM 1H - BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Lychee State Com 1H
Date Release Discovered	01/14/2025
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other   Other (Specify)   Crude Oil   Released: 10 BBL   Recovered: 0 BBL   Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	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)	Emergency services were notified Release was confined to the well pad Facility has been cleared by safety personnel

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 487941

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 487941
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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	Emergency services were notified Release was confined to the well pad Facility has been cleared by safety personnel

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/21/2025
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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 487941

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	487941
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10520
GRO+DRO (EPA SW-846 Method 8015M)	9250
BTEX (EPA SW-846 Method 8021B or 8260B)	16
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<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>	
On what estimated date will the remediation commence	05/01/2025
On what date will (or did) the final sampling or liner inspection occur	05/08/2025
On what date will (or was) the remediation complete(d)	05/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	1280
What is the estimated volume (in cubic yards) that will be reclaimed	47
What is the estimated surface area (in square feet) that will be remediated	1280
What is the estimated volume (in cubic yards) that will be remediated	47
<i>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.</i>	
<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 4

Action 487941

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	487941
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/23/2025
<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 487941

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 487941
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 487941

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 487941
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	458544
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	1280

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1280
What was the total volume (cubic yards) remediated	47
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	1280
What was the total volume (in cubic yards) reclaimed	47
Summarize any additional remediation activities not included by answers (above)	NA
<p><i>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></p>	
<p>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.</p>	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 07/23/2025

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QUESTIONS, Page 7  
  
Action 487941

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  487941
	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 487941

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 487941
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2501444745 LYCHEE STATE COM 1H, thank you. This Remediation Closure Report is approved.	8/28/2025