



April 5, 2023

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

**Re: Release Characterization and Closure Request
ConocoPhillips
Heritage Concho
Queso State #007H Release
Unit Letter O, Section 36, Township 23 South, Range 32 East
Lea County, New Mexico
Incident ID# nOY1709757773**

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release that occurred at the Queso State #007H well (API No. 30-025-42742). The release footprint is located in Public Land Survey System (PLSS) Unit Letter O, Section 36, Township 23 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.254105°, -103.626288° as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release occurred on January 27, 2017, and was caused by a loss of pressure to the supply line, causing the test knockout to over fill and send fluid to the flare. The fire burnt a hole in polyline which caused a flow line leak. The fire quickly extinguished itself due to the limited amount of fluid that escaped the flare. The release was approximately (1) barrel (bbl) of oil and 3.5 bbls of produced water, of which 0 bbls of oil and produced water were recovered. An initial/final C-141 was submitted to the NMOCD on January 27, 2017, with no assessment activities completed. The initial/final C-141 form is included in Appendix A.

C-141 REJECTION

The NMOCD rejected the submitted C-141 for incident ID (n#) nOY1709757773 via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) on November 30, 2023,. ConocoPhillips received the NMOCD rejection of the Final C-141 in an email from Ashley Maxwell with the following comments:

- "Release area was not delineated to determine whether impact occurred as a result of fluids released due to the fire.
- Delineation, any remedial activities, and closure to be conducted according to 19.15.29 NMAC.
- Submit work plan or closure report to OCD permitting portal by March 1, 2023.

On behalf of ConocoPhillips, Tetra Tech requested a 90-day extension to complete additional assessment, remedial actions, and associated closure reporting for the Queso State #007H Release site. The Extension request was approved the same day. A copy of the regulatory correspondence is included in Appendix B.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

SITE CHARACTERIZATION

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

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database within approximately 1.48 miles (2,385 meters) of the Site, the depth to groundwater is 492 feet below ground surface (bgs). The site characterization data 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, 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	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

VISUAL SITE INSPECTION SUMMARY

During a desktop review of the incident, Tetra Tech discovered the GPS location in the C-141 was incorrect, and that the Queso State #007H well (API No. 30-025-42742) was also incorrectly located in the NMOCD Oil and Gas Map. The GPS in the OCD files placed the well approximately 1-mile north of the actual physical location. Based on discussion with ConocoPhillips, Tetra Tech personnel identified a grouping of wells south of the reported GPS location provided by the NMOCD and the C-141. An adjacent well was identified as sharing a pad with the Queso State #001H well. After review of aerial imagery, an areal extent was identified in historical imagery which appear to correlate with the incident nOY1709757773.

At the request of ConocoPhillips, on January 27, 2023, Tetra Tech personnel conducted a visual Site inspection to evaluate current conditions at the Site and collect photographs of the inferred release area and surrounding vicinity. The inferred release footprint is indicated in Figure 3.

Tetra Tech personnel field verified the coordinates of the Queso State #007H well at approximately 32.254105°, -103.626288°. As mentioned, these coordinates differ from what is found in the NMOCD imaging files. The flare stack reported in the C-141 has been decommissioned. No evidence of staining was noted in the area of the former flare stack or on the surrounding caliche pad. Vegetation was present in the pasture area to the south of the former flare stack. Photographic documentation from the visual Site inspection (with stamped GPS coordinates) is included within Appendix D.

SITE ASSESSMENT AND SAMPLING RESULTS

Based on the information obtained in the visual Site inspection, Tetra Tech conducted assessment sampling at the Site on behalf of ConocoPhillips to determine current soil concentration levels of Table I constituents. On March 7, 2023, Tetra Tech installed twelve (12) hand auger borings (AH-23-1 through AH-23-12) to 1-foot bgs in the locations of the inferred release extent, as shown on Figure 4.

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ConocoPhillips

A total of twelve (12) soil samples were collected from the twelve borings and sent to Cardinal Laboratories in Midland, Texas to be analyzed for chloride via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Analytical results from the 2023 confirmation assessment activities are summarized in Table 1. All analytical results were below the applicable Site RRALs for all constituents.

CONCLUSION

As all analytical results associated with the 2023 assessment results were below the Site RRALs, no remediation of the release footprint is required. ConocoPhillips respectfully requests closure for this release.

Final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 739-7874.

Sincerely,
Tetra Tech, Inc.



Samantha Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Charles Beauvais, BU – ConocoPhillips
Mr. Moises Cantu, PBU – ConocoPhillips

Release Characterization and Closure Request
April 5, 2023

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Inferred Release Extent
- Figure 4 – Inferred Release Extent and Assessment Sampling

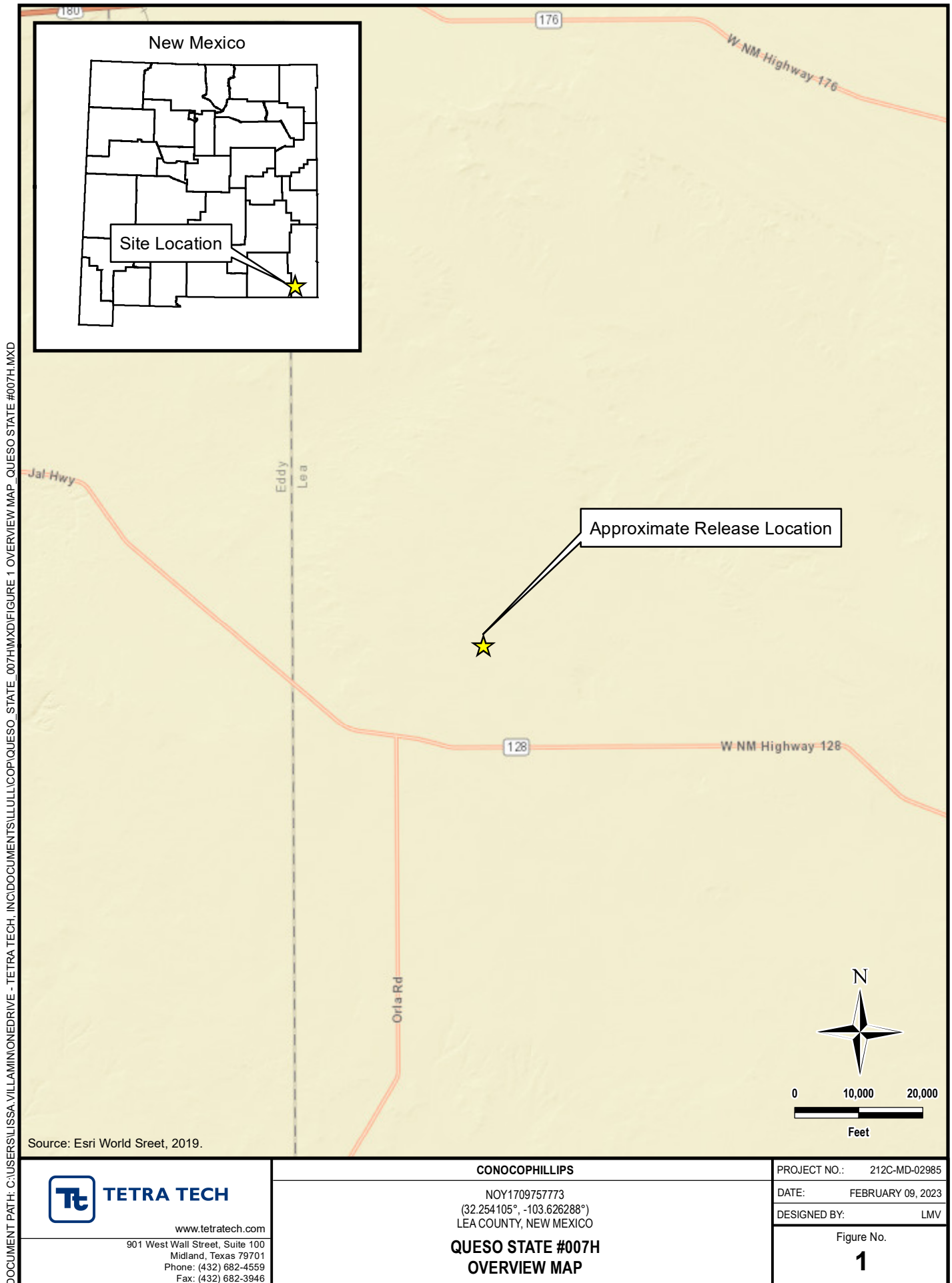
Tables:

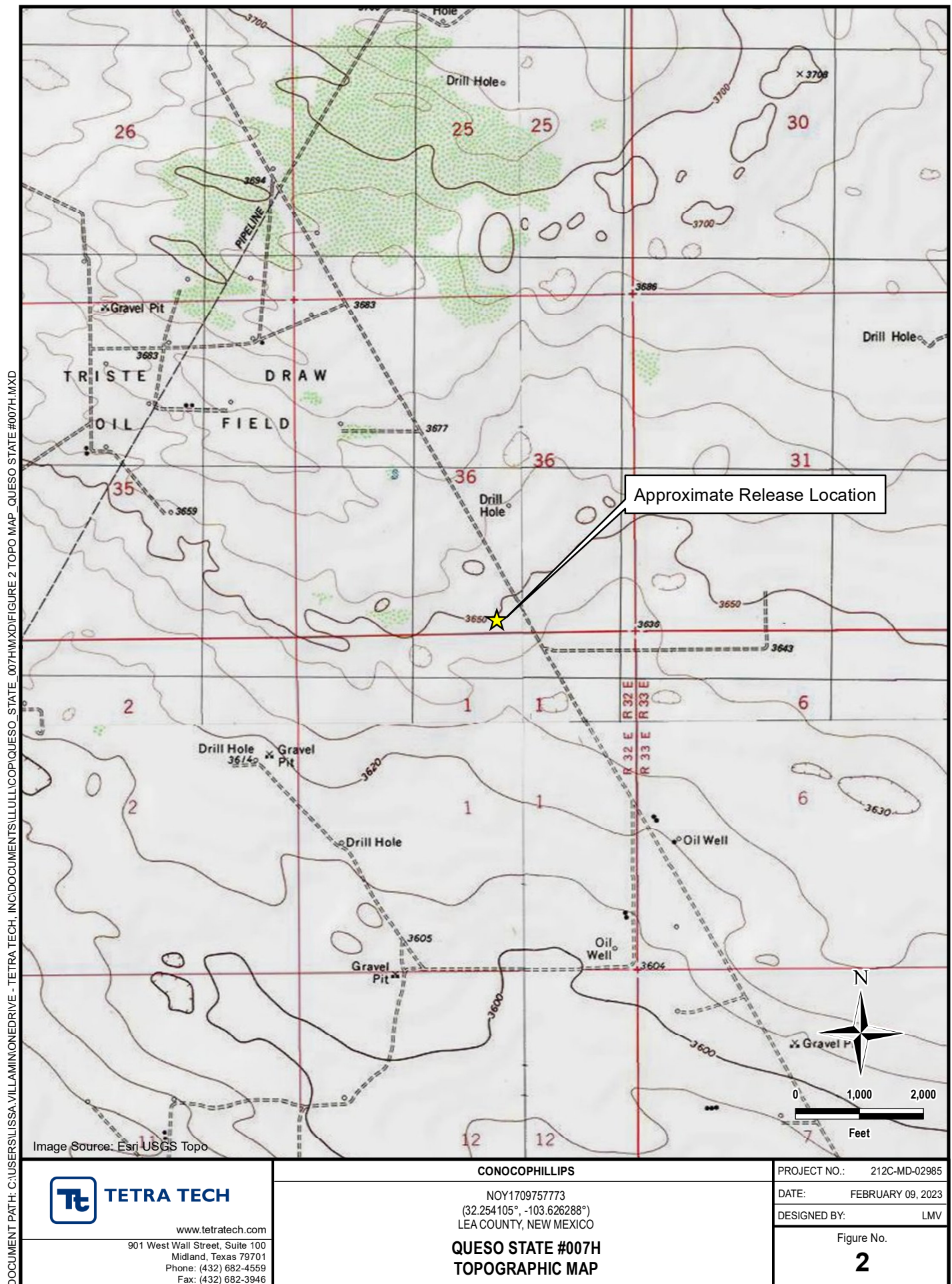
- Table 1 – Summary of Analytical Results – 2023 Soil Assessment

Appendices:

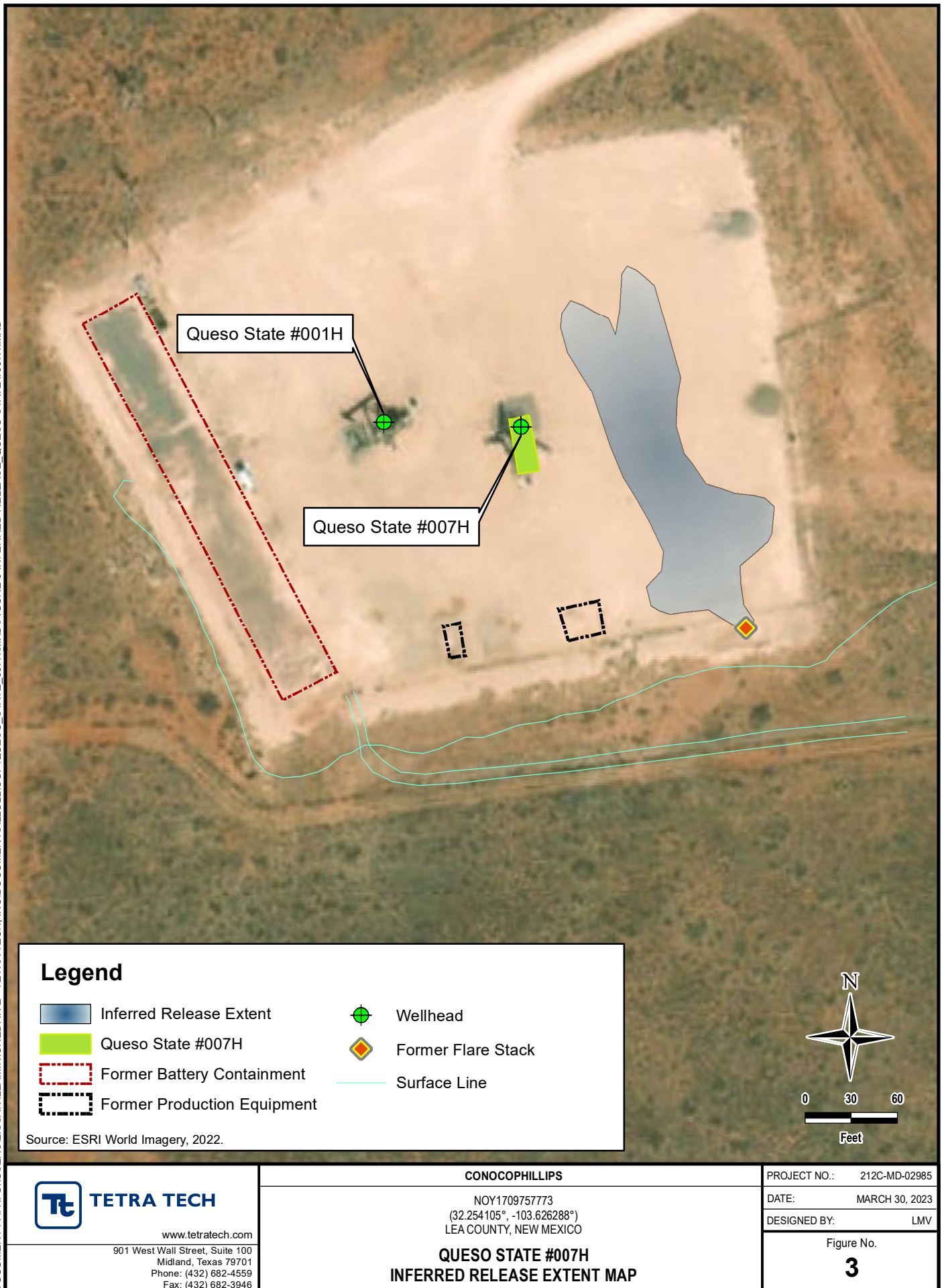
- Appendix A – C-141 Forms
- Appendix B – NMOCD Correspondence
- Appendix C – Site Characterization Data
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data

FIGURES

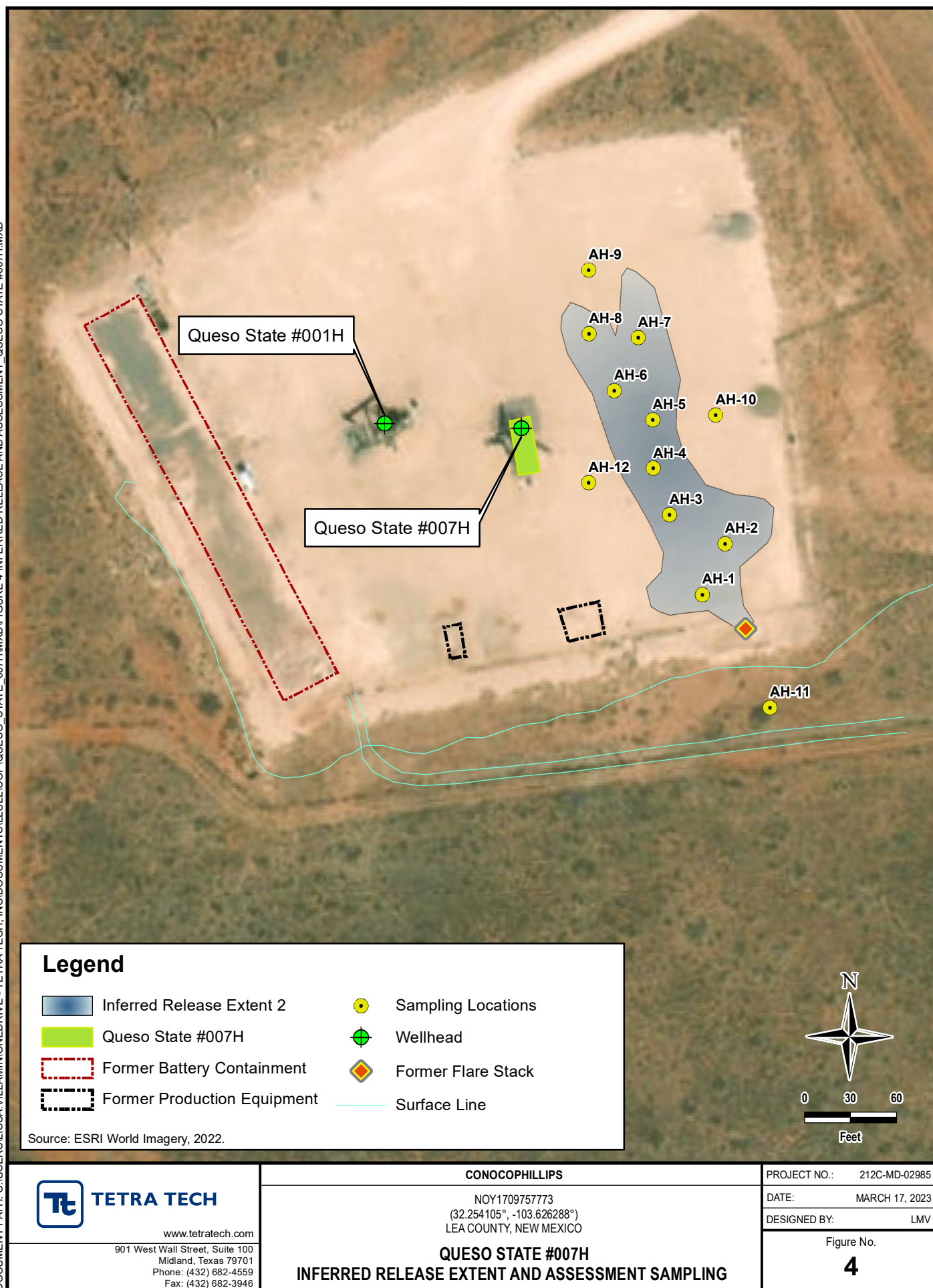




DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INCDOCUMENTS\ULLULLCOP\QUESO_STATE_007H\MXD\FIGURE 3 INFERRED RELEASE QUESO STATE #007H.MXD



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINON\DRIVE - TETRA TECH, INC\DOCUMENTS\ILLULLICOPI\QESO_STATE_007HMXD\FIGURE 4 INFERRED RELEASE AND ASSESSMENT_QESO STATE #007H.MXD



TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- nOY1709757773
CONOCOPHILLIPS
QUESO STATE #007H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
AH-1	3/7/2023	0-1	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-2	3/7/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-3	3/7/2023	0-1	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-4	3/7/2023	0-1	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-5	3/7/2023	0-1	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-6	3/7/2023	0-1	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-7	3/7/2023	0-1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-8	3/7/2023	0-1	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-9	3/7/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-10	3/7/2023	0-1	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-11	3/7/2023	0-1	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-12	3/7/2023	0-1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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

QUALIFIERS:

APPENDIX A C-141 Forms

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	QUESO STATE #007H	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	API No. 30-025-42742

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	36	23S	32E	190'	South	2160'	East	Lea

Latitude 32.26755954 Longitude 103.6264166

NATURE OF RELEASE

Type of Release:	Oil & Produced Water (Fire)	Volume of Release:	1bbls Oil & 3.5bbls Of Produced Water	Volume Recovered:	0bbls Oil & 0bbls Of Produced Water
Source of Release:	Flare	Date and Hour of Occurrence:	01/27/2017 07:00 am	Date and Hour of Discovery:	01/27/2017 07:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Olivia Yu - NMOCD / Amber Grover SLO		
By Whom?	Robert Grubbs Jr.	Date and Hour:	01/27/2017 Time of this email.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

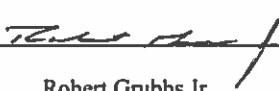
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a loss of pressure to supply line. Test ko over filled and sent fluid to flare. Fire burnt hole in poly line to cause a flow line leak. The fire was quickly extinguished itself due to the limited amount of fluid that escaped the flare.

Describe Area Affected and Cleanup Action Taken.*

The fire was quickly extinguished itself due to the limited amount of fluid that escaped the flare.

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

Signature:				OIL CONSERVATION DIVISION	
Printed Name:	Robert Grubbs Jr.			Approved by Environmental Specialist:	Rejected
Title:	Senior HSE Coordinator			Approval Date:	Expiration Date:
E-mail Address:	rgrubbs@concho.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	January 27, 2017		Phone:	432-683-7443	

Attach Additional Sheets If Necessary

REVIEWED

By Ashley Maxwell at 10:10 am, Nov 30, 2022

Release area was not delineated to determine whether impact occurred as a result of fluids released due to the fire.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/10/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/10/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Regulatory Correspondence

Chavira, Lisbeth

From: OCDOnline@state.nm.us
Sent: Wednesday, November 30, 2022 11:18 AM
To: Beauvais, Charles R
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 159225

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Charles Beauvais for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nOY1709757773, for the following reasons:

- **Release area was not delineated to determine whether impact occurred as a result of fluids released due to the fire.**
- **Delineation, any remedial activities, and closure to be conducted according to 19.15.29 NMAC.**
- **Submit work plan or closure report to OCD permitting portal by March 1, 2023.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 159225. Please review and make the required correction(s) prior to resubmitting.

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

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

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

Chavira, Lisbeth

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Tuesday, February 28, 2023 10:30 AM
To: Abbott, Sam
Cc: Llull, Christian; Beauvais, Charles R; Chavira, Lisbeth
Subject: RE: [EXTERNAL] Extension Request - Application ID 159225 (Incident ID nOY1709757773)

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

Good Morning,

Your request for an extension to June 1, 2023, is approved.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Tuesday, February 28, 2023 7:44 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>; Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Application ID 159225 (Incident ID nOY1709757773)

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

Ms. Maxwell:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 1, 2023) to complete additional assessment, remedial actions, and associated closure reporting for the Queso State #007H Release site (nOY1709757773).

ConocoPhillips recently received a large volume of NMOCd determinations related to unresolved releases from ConocoPhillips' predecessor-in-interest ("COG") via the *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF) process.

Given the difficulties inherent with available resource allocation for several projects with similar deadlines within a short period of time, this extension is required to safely complete remedial action. ConocoPhillips plans to conduct remediation in the coming month however, and once the confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

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

Sam

Samantha Abbott, PG | Project Manager

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

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TETRA TECH

APPENDIX C

Site Characterization Data

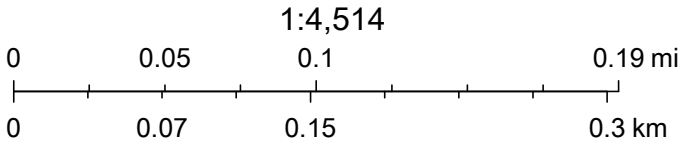
OCD Potential Karst Map



1/27/2023, 2:53:08 PM

Karst Occurrence Potential

Low



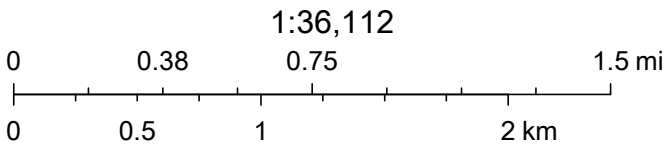
BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar

OCD Waterbodies Map



1/27/2023, 2:47:22 PM

 OSW Water Bodys



Esri, HERE, Garmin, Maxar, NM OSE



New Mexico Office of the State Engineer

Wells with Well Log Information

(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										Log File		Depth	Depth	License	
Sub-										Date	Date	Well	Water	Driller	Number
POD Number	Code	basin	County	Source	6416	4	Sec	Tws	Rng						
C 01932	C	ED	Shallow		3	1	12	24S	32E	628633	3567188*		492	GLENN, CLARK A."CORKY" (LD)	421

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 629328.66

Northing (Y): 3569470.24

Radius: 2500

APPENDIX D

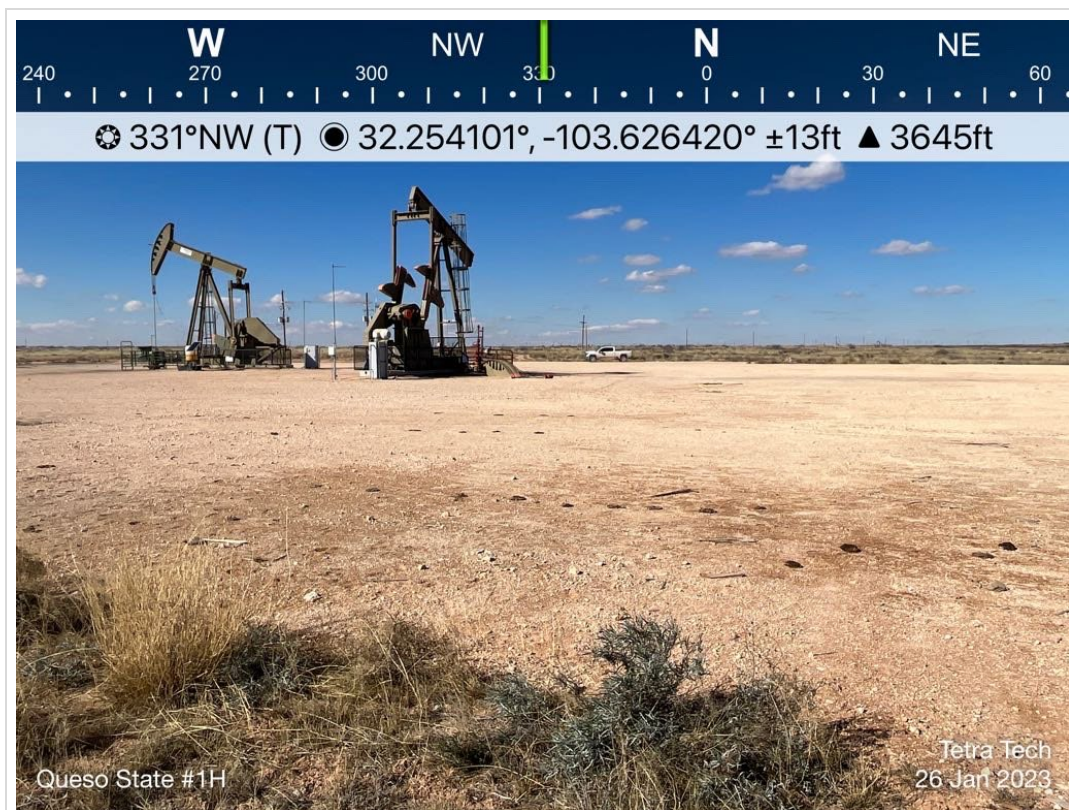
Photographic Documentation



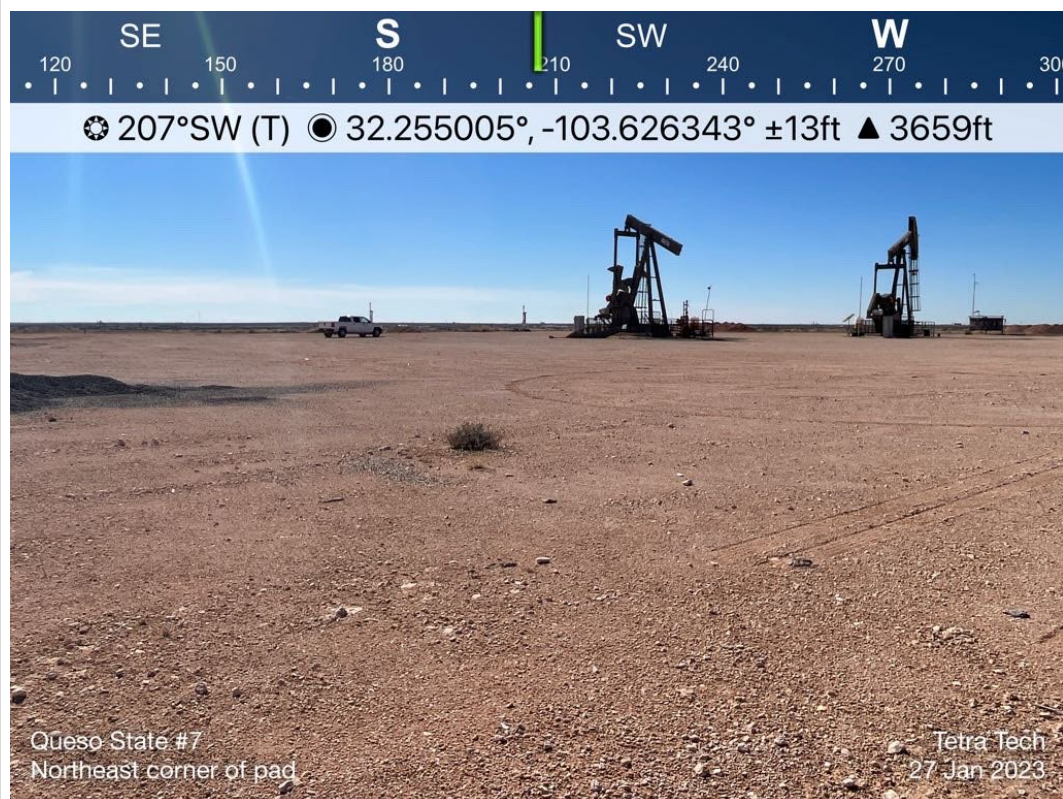
TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	Queso State #007H Site Signage.	1
	SITE NAME	Queso State #007H	1/26/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	View northwest. View of Queso State #001H Wellhead, located to the west of Queso State #007H wellhead.	2
	SITE NAME	Queso State #007H	1/27/2023



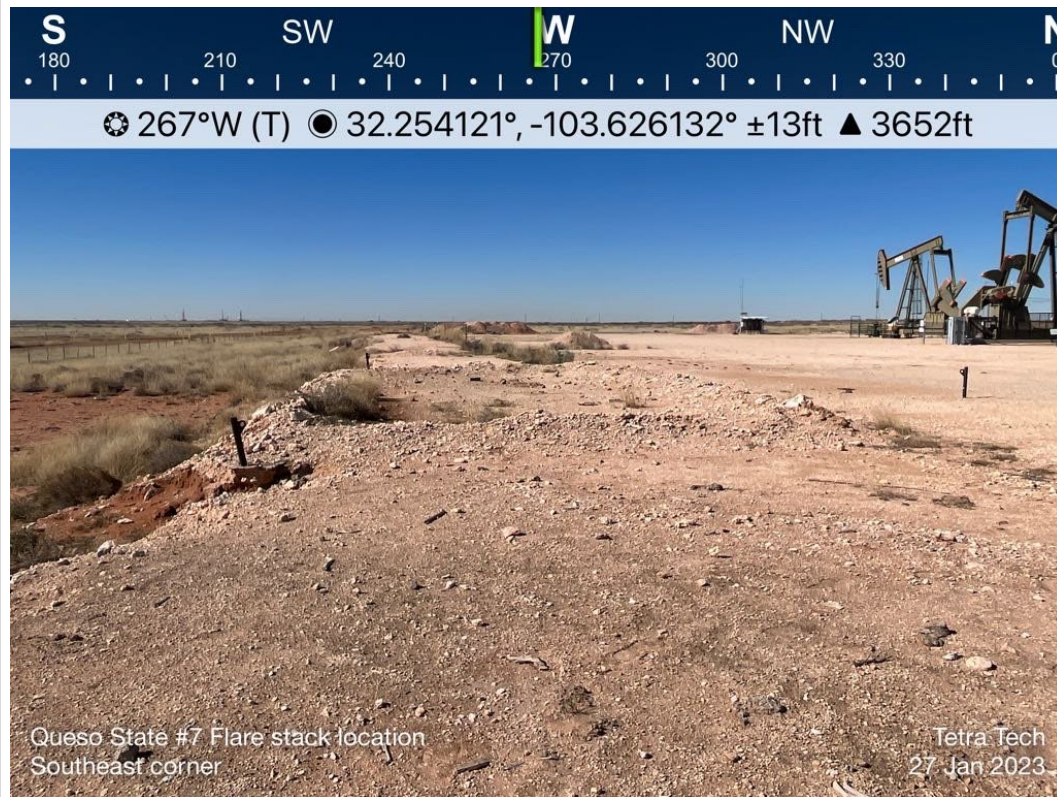
TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	View northwest. View of inferred release extent.	3
	SITE NAME	Queso State #007H	1/27/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	View southwest. View of inferred release extent.	4
	SITE NAME	Queso State #007H	1/27/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	View south. View of inferred release extent.	5
	SITE NAME	Queso State #007H	1/27/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02985	DESCRIPTION	View west. View of former flare stack location.	6
	SITE NAME	Queso State #007H	1/27/2023

APPENDIX E

Laboratory Analytical Data



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

March 15, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: QUESO STATE #007H

Enclosed are the results of analyses for samples received by the laboratory on 03/10/23 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	QUESO STATE #007H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02985	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 1 (0-1') (H231114-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/11/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/13/2023	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	03/11/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2023	Sampling Date:	03/07/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	QUESO STATE #007H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02985	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 2 (0-1') (H231114-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2023	ND	1.94	96.8	2.00	1.49	
Toluene*	<0.050	0.050	03/11/2023	ND	1.99	99.5	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.00	100	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.02	100	6.00	1.09	
Total BTEx	<0.300	0.300	03/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/13/2023	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	03/11/2023	ND	190	94.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	203	102	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 3 (0-1') (H231114-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/13/2023	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	03/13/2023	ND	190	95.0	200	2.60	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	205	102	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 4 (0-1') (H231114-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/10/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/10/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/10/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/10/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/10/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/13/2023	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 5 (0-1') (H231114-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.07	
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23	
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85	
Total BTEx	<0.300	0.300	03/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/13/2023	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 6 (0-1') (H231114-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/13/2023	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 7 (0-1') (H231114-07)

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	03/11/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/13/2023	ND	400	100	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 8 (0-1') (H231114-08)

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	03/11/2023	ND	2.02	101	2.00	3.07	
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23	
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85	
Total BTEx	<0.300	0.300	03/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/13/2023	ND	400	100	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 9 (0-1') (H231114-09)

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	03/11/2023	ND	2.02	101	2.00	3.07	
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23	
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85	
Total BTEx	<0.300	0.300	03/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/13/2023	ND	400	100	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 10 (0-1') (H231114-10)

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	03/11/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/13/2023	ND	400	100	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 11 (0-1') (H231114-11)

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	03/11/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/13/2023	ND	400	100	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	03/10/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/10/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/10/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/10/2023
 Reported: 03/15/2023
 Project Name: QUESO STATE #007H
 Project Number: 212C-MD-02985
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 03/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH - 12 (0-1') (H231114-12)

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	03/11/2023	ND	2.02	101	2.00	3.07		
Toluene*	<0.050	0.050	03/11/2023	ND	2.04	102	2.00	2.84		
Ethylbenzene*	<0.050	0.050	03/11/2023	ND	2.02	101	2.00	3.23		
Total Xylenes*	<0.150	0.150	03/11/2023	ND	6.22	104	6.00	3.85		
Total BTEx	<0.300	0.300	03/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/13/2023	ND	400	100	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	03/11/2023	ND	188	93.9	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/11/2023	ND	185	92.6	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

A-01	CCV failed high for DRO. DRO ND in samples.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 2

Company Name: Tetra Tech, Conoco Phillips		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Lisbeth Chavira LISBETH.CHAVIRA@tetratech.com		Company: Tetra Tech					
Address: 8911 Capital o Texas Hwy, Ste 230 tetratech.com		Attn: Christian Llull					
City: TX zip: 78750		Address: EMAIL					
Phone #: 512-565-0190 Fax #: NA		City:					
Project #: 212C-MD-02985 Project Owner: Conoco Phillips		State:					
Project Name: Queso State #007H		Zip:					
Project Location: Lea County, New Mexico		Phone #:					
Sample Name: Ezequiel Moreno Flores		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
H23114		AH-1 (0-1')		GROUNDWATER		WASTEWATER	
1		AH-2 (0-1')		SOIL		OIL	
2		AH-3 (0-1')		SLUDGE		OTHER :	
3		AH-4 (0-1')		ACID/BASE:		ICE / COOL	
4		AH-5 (0-1')		OTHER :		DATE	
5		AH-6 (0-1')		DATE		TIME	
6		AH-7 (0-1')		TPH		BTX	
7		AH-8 (0-1')		Chlorides		Hold	
8		AH-9 (0-1')					
9		AH-10 (0-1')					
10							

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Relinquished By: <i>Tetra Tech</i>	Date: 3/10/23	Received By: <i>Stoddard</i>
Time: 1130		
Delivered By: (Circle One) <i>2-8(c) C.O.V.</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>(initials)</i>
Sampler - UPS - Bus - Other: <i>2-8(c) C.O.V.</i>		

Phone Results: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Results: ☐ Yes ☐ No ☐ Add'l Fax #:

Email Results to: *Stoddard TAT*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

Company Name: Tetra Tech, Conoco Phillips		BILL TO		ANALYSIS REQUEST													
Project Manager: Lisbeth Chavira LISBETH.CHAVIRA@tetratech.com		P.O. #:															
Address: 8911 Capital of Texas Hwy, Ste 230		Company: Tetra Tech															
City: TX State: TX Zip: 78750		Attn: Christian Llo11															
Phone #: 512-565-0190 Fax #: NA		Address: EMAIL															
Project #: 2126-MD-02985 Project Owner: Conoco Phillips		City:															
Project Name: Queso State #007H		State:															
Project Location: Lea County, New Mexico		Phone #:															
Sampler Name: Ezequiel Moreno Flores		Fax #:															
FOR LAB USE ONLY		PRESERV		SAMPLING													
Lab I.D.		Sample I.D.		MATRIX		DATE		TIME		TPH		BTX		Chlorides		Hold	
H23114		AH-11 (O-1')		(G)RAB OR (C)OMP.		3/7/23		1240		X		X		X			
11		AH-12 (O-1')		# CONTAINERS		3/7/23		1245		X		X		X			
12				GROUNDWATER													
				WASTEWATER													
				SOIL													
				OIL													
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL													
				OTHER :													

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Relinquished By: **Paul Moore** Date: **3/10/23** Received By: **Shodrick Perry**

Relinquished By: **Paul Moore** Date: **11/30** Received By: **Shodrick Perry**

Delivered By: (Circle One) **2-8 (C-O-10)** Sample Condition: ☒ Cool ☒ Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other: **2-8 (C-O-10)** Checked By: **(Initials)**

Phone Results: ☐ Yes ☐ No Add'l Phone #: **Standard TAT**

Fax Results: ☐ Yes ☐ No Add'l Fax #: **Standard TAT**

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

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

CONDITIONS

Action 205160

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 205160
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/11/2023