



July 28, 2022

Bradford Billings
Hydrologist/E.Spec.A
District 2 Artesia
1220 South St. Francis Drive
Oil Conservation Division
Santa Fe, NM 87505

**RE: Closure Report
ConocoPhillips
Heritage Concho
Y Energy State Com #001H Tank Release
Unit Letter L, Section 32, Township 18 South, Range 30 East
Eddy County, New Mexico
Incident ID: nMLB1122348831
2RP-831**

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release that occurred at a tank battery on the Y Energy State Com #001H well pad (API No. 30-015-36033). The release footprint is located in Public Land Survey System (PLSS) Unit Letter L, Section 32, Township 18 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.702619°, -103.999775°, 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 was discovered on June 7, 2011. The C-141 reports that the cause of the release was caused by a hole developing in a load line. Approximately 15 barrels (bbls) of produced water were released and approximately 13 bbls of produced water were recovered. The release was reportedly contained inside the berm walls of the facility. According to Concho representatives, all freestanding fluids and visually contaminated soil and gravel were removed and transported offsite for proper disposal. The NMOCD approved the initial C-141 on June 6, 2011, and subsequently assigned the release the Incident ID nMLB1122348831 and the remediation permit (RP) number 2RP-831. The initial C-141 form is included in Appendix A. This incident which is included in an Agreed Compliance Order-Releases (ACO-R) between COG Operating LLC (Concho) and the NMOCD signed on November 20 and 26, 2018, respectively.

SITE CHARACTERIZATION

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

TETRA TECH

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NMOSE database within approximately 5.5 miles (8,800 meters) of the site, the depth to groundwater is 180 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

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.

A depth to groundwater determination was unable to be made within the specified distance of 0.5 miles from the release location. Therefore, based on the site characterization and in lieu of drilling a boring for groundwater depth verification, 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
Benzene	10 mg/kg

SITE ASSESSMENT AND SAMPLING RESULTS

On January 24, 2022, Tetra Tech personnel were on site to assess the release footprint. Four (4) soil borings were complete with hand auger (AH-1 through AH-4) to depths of 2 feet bgs to complete horizontal delineation of the release extent. Tetra Tech returned to the site on February 9, to drill one (1) soil boring (BH-1) using an air rotary drilling rig immediately adjacent to the berm wall to a depth of 10 feet bgs to complete vertical delineation of the release extent. Sampling was not conducted in the area within the berm walls because this area was inaccessible for the drilling rig. Boring locations are presented in Figure 3.

A total of fifteen (15) soil samples were collected from the five (5) borings and sent to cardinal Laboratories in Hobbs, New Mexico to be analyzed for chlorides via EPA Method SM4500Cl-B, TPH via EPA Method 8015m and BTEX via EPA Method 8021B.

Analytical results from the January and February 2022 assessment activities are summarized in Table 1. The analytical results associated with the BH-1 boring location exceeded the Site RRAL for chloride (600 mg/kg) in the 0-1 foot sample interval. All other analytical results were below applicable Site RRALs for all constituents. Vertical and horizontal delineation of the release was successfully achieved as a result of the 2022 assessment activities.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCd on February 28, 2022, with fee application payment PO Number GX6IL-220228-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Bradford Billings of the NMOCd via email on March 4, 2022 with the requirement to sample 500 square feet for each confirmation sample. The Closure report was noted as due July 2, 2022. Mr. Billings also executed page 5 of the C-141 form included with the Work Plan.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From June 28 through July 5, 2022, ConocoPhillips personnel were onsite to excavate the release as proposed in the approved Work Plan, including excavation and disposal. Impacted soils were excavated from to 1 foot bgs. All the excavated material was transported offsite for proper disposal. Approximately 36

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ConocoPhillips

cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix C. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD division district office was notified via email on June 27, 2022. Documentation of associated regulatory correspondence is included in Appendix E. On June 30, 2022, Tetra Tech personnel were onsite for confirmation sampling. Confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of two (2) floor sample locations and six (6) sidewall sample locations were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#.

Analytical results associated with sample locations SSW-2 exceeded the Site RRAL of 600 mg/kg for chloride. Therefore, additional excavation was conducted at this location. On July 6, 2022, Tetra Tech personnel returned to site to collect an iterative confirmation sample. The iterative confirmation sample was located to encompass the original sample location that triggered removal (nomenclature defined in table 2) post-additional excavation. Thus, one (1) additional sidewall sample was collected following the excavation work, and final laboratory analysis results confirmed constituents were below the established RRALs. After sampling and analysis, all final confirmation soil samples (floor and sidewall) were below the respective RRALs for chloride, BTEX, and TPH. The results of the June and July 2022 confirmation sampling events are summarized in Table 2. Laboratory analytical data is included in Appendix F. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

CONCLUSION

ConocoPhillips respectfully requests closure of the release 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) 739-7874.

Sincerely,
Tetra Tech, Inc.



Samantha K. Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Charles Beauvais, BU – ConocoPhillips

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July 28, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Site Assessment Map
- Figure 4 – Remediation Extent and Confirmation Sample Locations

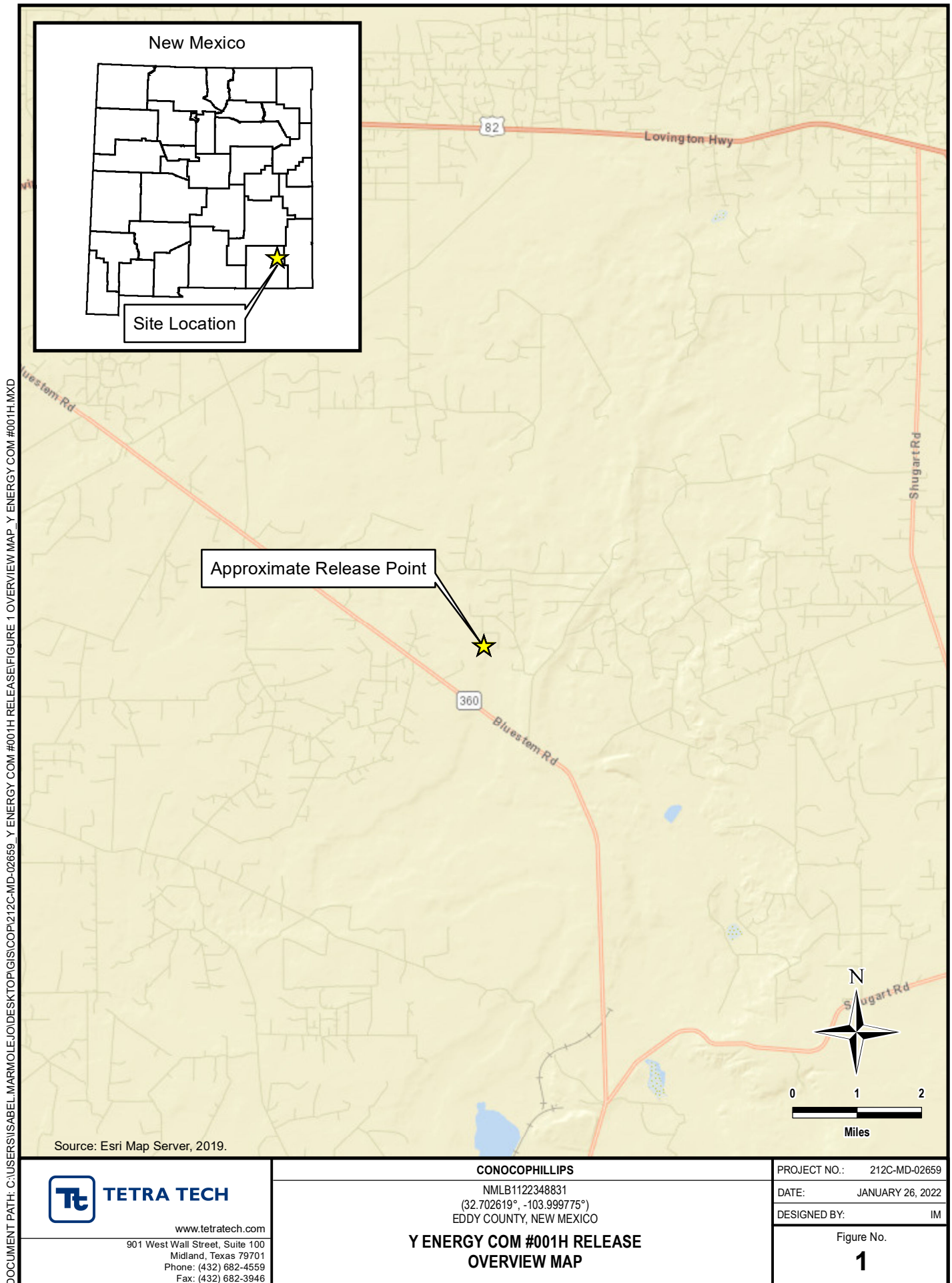
Tables:

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

Appendices:

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

FIGURES

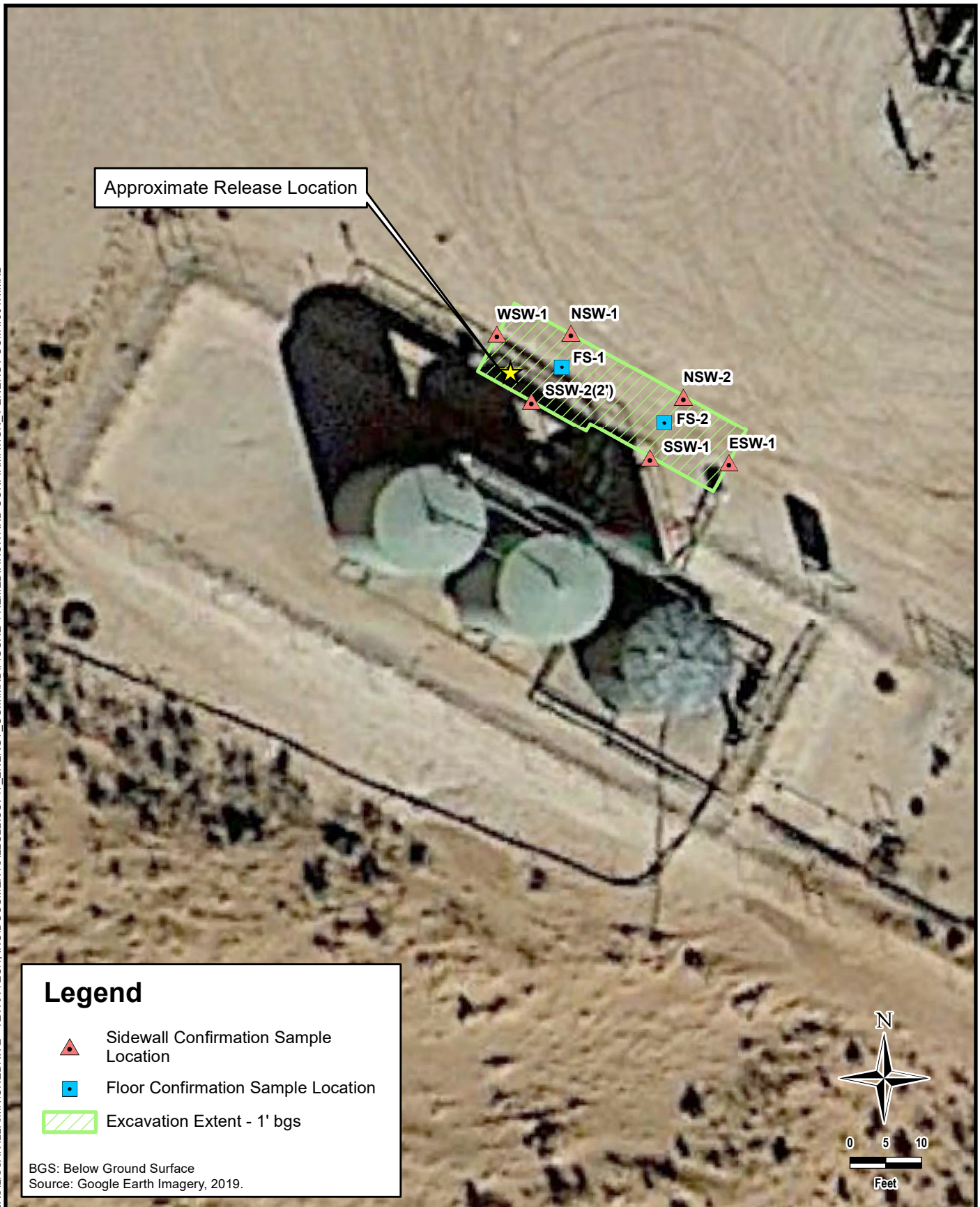




DOCUMENT PATH: C:\USERS\ISABEL.MARMOLEJO\DESKTOP\GIS\CONOCO PHILIPS\212C-MD-02659_Y ENERGY COM #001H RELEASE\FIGURE 4 SITE ASSESSMENT MAP_Y ENERGY COM #001H.MXD



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TETRA TECH

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Midland, Texas 79701
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Fax: (432) 682-3946

CONOCOPHILLIPS

NMLB1122348831
(32.702619°, -103.999775°)
EDDY COUNTY, NEW MEXICO

**Y ENERGY COM #001H RELEASE
REMEDATION EXTENT AND CONFIRMATION SAMPLE LOCATIONS**

PROJECT NO.: 12C-MD-02739

DATE: JULY 13, 2022

DESIGNED BY: LMV

Figure No.

4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- 2RP-831 / NMLB1122348831
HERITAGE CONCHO
Y ENERGY STATE COM 001H
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	PID			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	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
BH-1	1/29/2022	0-1			4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		2-3			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		3-4			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		4-5			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		6-7			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		8-9			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		9-10			128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-1	2/9/2022	0-1	49.9	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	55.3	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-2	2/9/2022	0-1	23.6	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	35.2	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-3	2/9/2022	0-1	165	-	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	229	-	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-4	2/9/2022	0-1	127	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
		1-2	102	-	32.0		< 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.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL REMEDIATION - 2RP-831/nMLB1122348831
HERITAGE CONCHO
Y ENERGY STATE COM #001H TANK RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-1	6/30/2022	1	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
FS-2	6/30/2022	1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-1	6/30/2022	-	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
NSW-2	6/30/2022	-	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
ESW-1	6/30/2022	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-1	6/30/2022	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-2	6/30/2022	-	688		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
SSW-2 (2')	7/6/2022	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
WSW-1	6/30/2022	-	192		< 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 SM4500C1-B

2 Method 8021B

3 Method 8015M

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

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

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

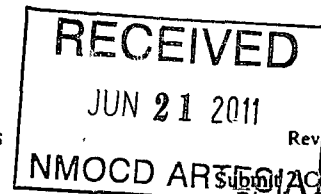
* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

QUALIFIERS:

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

nmlb1122348831

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC 229137	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Y Energy State	Facility Type	Tank Battery
Surface Owner	State	Mineral Owner	Lease No. (API#) 30-015-36033

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	32	18S	30E					Eddy

Latitude 32 42.164 Longitude 103 59.980

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	15bbls	Volume Recovered	13bbls
Source of Release	Water tank load line	Date and Hour of Occurrence	06/07/2011	Date and Hour of Discovery	06/07/2011 8:00 a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
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.*					
A hole developed in the load line causing produced water to be released inside the dike walls of the facility. The load line has been replaced.					
Describe Area Affected and Cleanup Action Taken.*					
Initially 15bbls of produced water was released from the load line and we were able to recover 13bbls with a vacuum truck. All fluid was contained inside the berm walls of the facility. All standing fluid has been removed and contaminated soil and gravel has been removed and hauled to disposal. Tetra Tech will sample the spill site are to delineate an possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.					
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:	Josh Russo	Signed By	
Title:	HSE Coordinator	Approved by District Supervisor:	
E-mail Address:	jrusso@conchoresources.com	Approval Date:	AUG 11 2011
Date:	06/21/2011	Expiration Date:	
Phone:	432-212-2399	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**

9/11/2011

JRP-831

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II 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: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Bradford Billings Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Charles R. Beauvais II Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Ashley Maxwell Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data

Y Energy State Com 001H

Karst Potential

Legend

- ☆ Approximate Release Location
- High
- Low
- Medium

Loco Hills

82

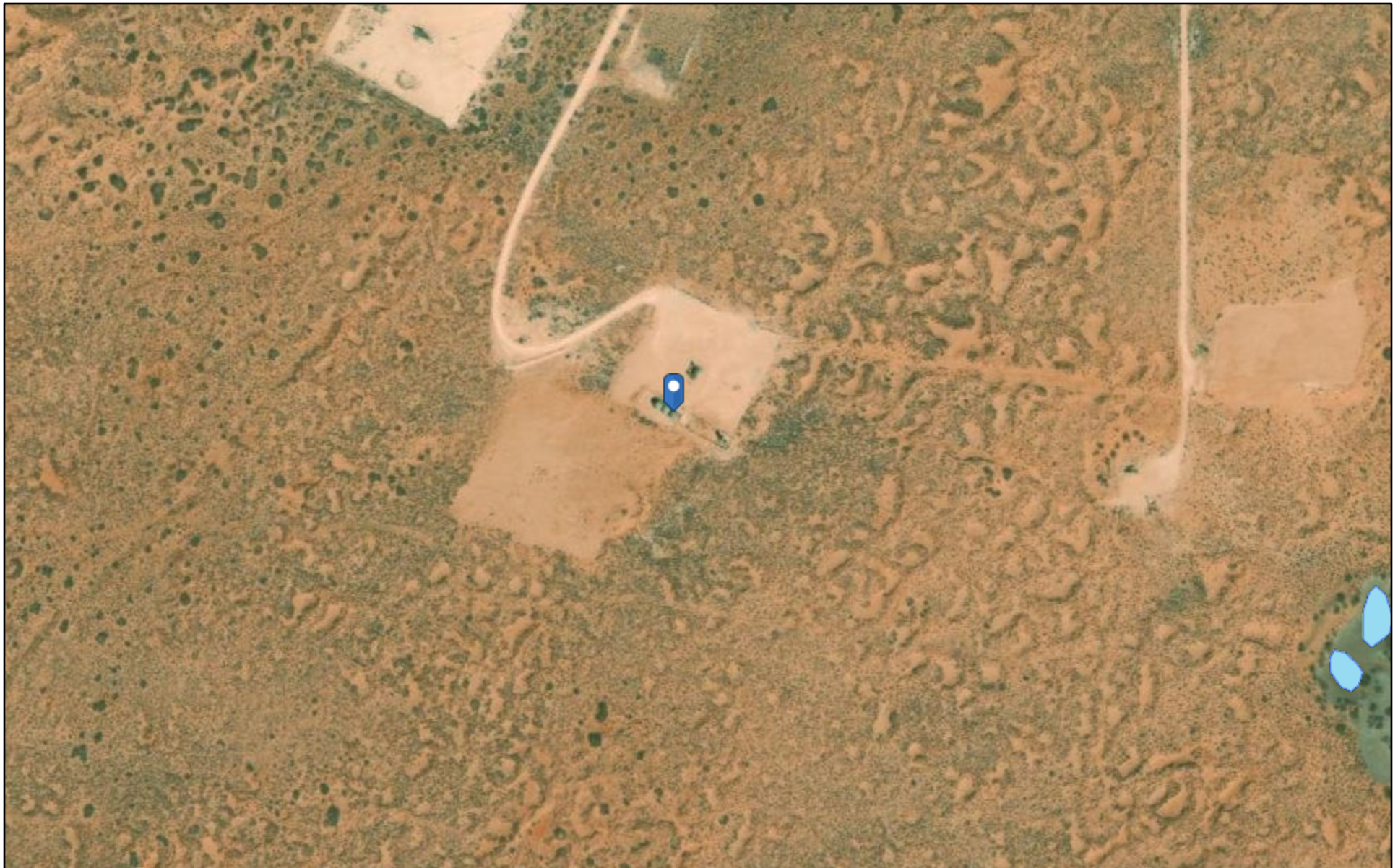
360

☆ Approximate Release Location



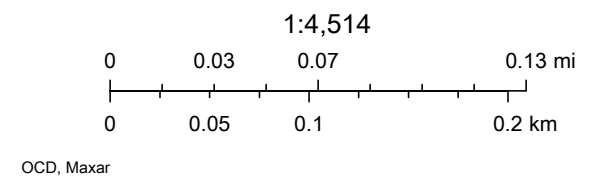
4 mi

OCD Water Bodies



1/11/2022, 12:19:30 PM

- ★ OCD District Offices
- PLJV Probable Playas
- OSE Water-bodies
- OSE Streams





New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 593756

Northing (Y): 3618752

Radius: 800

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.

2/14/22 1:56 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
CP 00819 POD1	CP	LE		2	4	32	18S	30E		594878	3618720*	1122	150		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 593756

Northing (Y): 3618752

Radius: 1200

*UTM location was derived from PLSS - see Help

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

1/11/22 11:23 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
CP 00819 POD1	CP	LE		2	4	32	18S	30E		594878	3618720*	1122	150		
CP 00853 POD1	O	CP	ED	2	4	28	18S	30E		596472	3620340*	3146	350		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 593756

Northing (Y): 3618752

Radius: 4000

*UTM location was derived from PLSS - see Help

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

1/11/22 11:26 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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
CP 00819 POD1	CP	LE		2	4	32	18S	30E		594878	3618720*	1122	150		
CP 00853 POD1	O	CP	ED	2	4	28	18S	30E		596472	3620340*	3146	350		
CP 00582 POD1	CP	ED				24	18S	29E		591048	3622096*	4302	150		
CP 00823 POD1	CP	LE		1	3	17	19S	30E		593715	3613885*	4867	120		
CP 00820 POD1	CP	LE		2	4	13	19S	29E		591713	3613870*	5292	120		
CP 00767 POD1	CP	ED		3	2	35	18S	30E		599300	3619158*	5558	500		
CP 00818 POD1	CP	LE		1	4	26	18S	30E		599289	3620364*	5763	240		
CP 00863	CP	ED		1	4	2	27	18S	29E	588341	3620768*	5778	320		
CP 00824 POD1	CP	LE		4	1	20	19S	30E		594129	3612680*	6083	70		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	6093	200	92	108
CP 00626 POD2	CP	ED		3	2	1	03	19S	29E	587660	3617880	6158	240	195	45
CP 00626 POD1	CP	ED		2	3	1	03	19S	29E	587360	3617575	6503	286	247	39
CP 00822 POD1	CP	LE		4	4	15	19S	30E		598148	3613516*	6834	90		
CP 00522	CP	ED			3	30	19S	30E		592347	3610451*	8419	120	90	30
CP 00821 POD1	CP	LE		4	4	25	19S	29E		591743	3610248*	8739	120		
CP 00825 POD1	CP	LE		3	4	28	19S	30E		596164	3610282*	8805	100		
CP 01618 POD1	CP	ED		3	4	2	29	18S	29E	585120	3620554	8822	240	180	60
CP 00357 POD2	CP	ED		4	3	1	24	19S	30E	600265	3612627*	8937	630		

Average Depth to Water: **160 feet**

Minimum Depth: **90 feet**

Maximum Depth: **247 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 593756

Northing (Y): 3618752

Radius: 9000

*UTM location was derived from PLSS - see Help

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

2/14/22 2:01 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX C

Waste Manifests



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: CHARLES BEAUVAIS
 AFE #:
 PO #:
 Manifest #: 01
 Manif. Date: 6/30/2022
 Hauler: MCNABB PARTNERS
 Driver: ERICK
 Truck #: 02
 Card #
 Job Ref #

Ticket #: 700-1320414
 Bid #: O6UJ9A000JEC
 Date: 6/30/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 36033
 Well Name: Y ENERGY STATE COM
 Well #: 001H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

Generator Certification Statement of Waste Status

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

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: CHARLES BEAUVAIS
 AFE #:
 PO #:
 Manifest #: 02
 Manif. Date: 6/30/2022
 Hauler: MCNABB PARTNERS
 Driver: ERICK
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1320463
 Bid #: O6UJ9A000JEC
 Date: 6/30/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 36033
 Well Name: Y ENERGY STATE COM
 Well #: 001H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

Generator Certification Statement of Waste Status

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

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: CHARLES BEAUVAIS
 AFE #:
 PO #:
 Manifest #: 1
 Manif. Date: 7/12/2022
 Hauler: MCNABB PARTNERS
 Driver: MIKE
 Truck #: M32
 Card #
 Job Ref #

Ticket #: 700-1324186
 Bid #: O6UJ9A000JEC
 Date: 7/12/2022
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 36033
 Well Name: Y ENERGY STATE COM
 Well #: 001H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: EDDY (NM)

Facility: CRI

Product / Service	Quantity Units
-------------------	----------------

Contaminated Soil (RCRA Exempt)	18.00 yards
---------------------------------	-------------

12

Generator Certification Statement of Waste Status

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

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

APPENDIX D

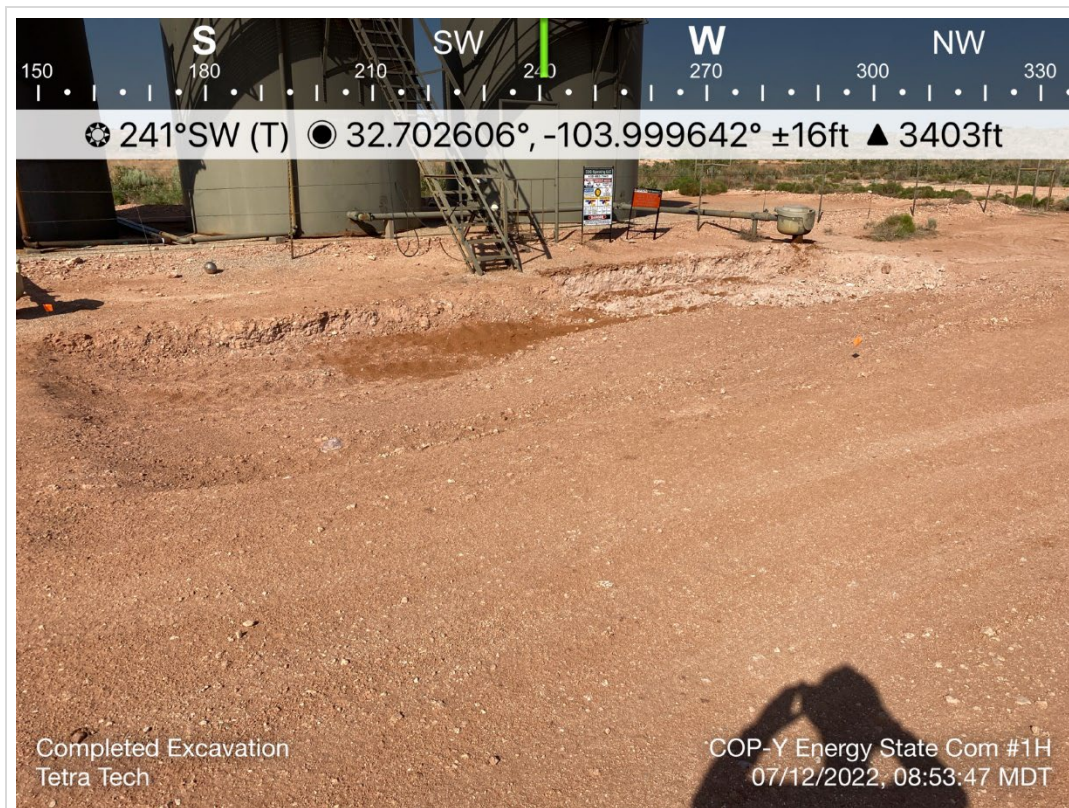
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02739	DESCRIPTION	View east of the excavation area.	1
	SITE NAME	ConocoPhillips Y Energy State Com #001H Tank Release.	7/12/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02739	DESCRIPTION	View west of the excavation area	2
	SITE NAME	ConocoPhillips Y Energy State Com #001H Tank Release.	7/12/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02739	DESCRIPTION	View southwest of the excavation area with sidewall expansion.	3
	SITE NAME	ConocoPhillips Y Energy State Com #001H Tank Release.	7/12/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02739	DESCRIPTION	View southwest of the backfilled excavation.	4
	SITE NAME	ConocoPhillips Y Energy State Com #001H Tank Release.	7/12/2022

APPENDIX E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Lull, Christian](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 84889
Date: Friday, March 4, 2022 10:58:01 AM

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMLB1122348831, with the following conditions:

- **Approved with following: 500 sqft sampling is maximum the 750 sqft request is denied.**

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

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

Thank you,
Bradford Billings
Hydrologist/E.Spec.A
505-670-6549
bradford.billings@state.nm.us

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

Poole, Nicholas

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, June 28, 2022 9:19 AM
To: Poole, Nicholas; Enviro, OCD, EMNRD
Cc: Abbott, Sam; Llull, Christian
Subject: RE: [EXTERNAL] Incident ID: NMLB1122348831 - Confirmation Sampling

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

Hello.

Thanks for the notification. Please copy this and include in allied report(s).

Bradford Billings
EMNRD/OCD

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Monday, June 27, 2022 3:10 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Abbott, Sam <Sam.Abbott@tetrattech.com>; Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] Incident ID: NMLB1122348831 - Confirmation Sampling

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

Incident ID (n#) **NMLB1122348831** (Y Energy State Com #001H)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities are beginning at the site this week.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site Wednesday, June 29, 2022

NOTE: If you have any questions regarding this sampling schedule, please contact me.

Nicholas Poole | Staff Geoscientist
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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

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



APPENDIX F

Laboratory Analytical Data



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

July 01, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: Y ENERGY STATE COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 06/30/22 15:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 1 (H222815-01)

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	06/30/2022	ND	2.18	109	2.00	0.415		
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991		
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434		
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02		
Total BTX	<0.300	0.300	06/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	07/01/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 2 (H222815-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2022	ND	2.18	109	2.00	0.415	
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02	
Total BTEx	<0.300	0.300	06/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/01/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 87.8 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: NSW - 1 (H222815-03)

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	06/30/2022	ND	2.18	109	2.00	0.415		
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991		
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434		
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02		
Total BTX	<0.300	0.300	06/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/01/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 43-149

Surrogate: 1-Chlorooctadecane 81.2 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: NSW - 2 (H222815-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/30/2022	ND	2.18	109	2.00	0.415		
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991		
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434		
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02		
Total BTEx	<0.300	0.300	06/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/01/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SSW - 1 (H222815-05)

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	06/30/2022	ND	2.18	109	2.00	0.415		
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991		
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434		
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02		
Total BTX	<0.300	0.300	06/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/01/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 70.3 % 43-149

Surrogate: 1-Chlorooctadecane 81.5 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SSW - 2 (H222815-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2022	ND	2.18	109	2.00	0.415	
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02	
Total BTEx	<0.300	0.300	06/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/01/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: ESW - 1 (H222815-07)

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	06/30/2022	ND	2.18	109	2.00	0.415	
Toluene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.991	
Ethylbenzene*	<0.050	0.050	06/30/2022	ND	2.17	108	2.00	0.434	
Total Xylenes*	<0.150	0.150	06/30/2022	ND	6.64	111	6.00	1.02	
Total BTEx	<0.300	0.300	06/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/01/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/30/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	06/30/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 43-149

Surrogate: 1-Chlorooctadecane 95.9 % 42.5-161

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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:	06/30/2022	Sampling Date:	06/30/2022
Reported:	07/01/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	** (See Notes)
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: WSW - 1 (H222815-08)

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	07/01/2022	ND	2.18	109	2.00	0.415		
Toluene*	<0.050	0.050	07/01/2022	ND	2.17	108	2.00	0.991		
Ethylbenzene*	<0.050	0.050	07/01/2022	ND	2.17	108	2.00	0.434		
Total Xylenes*	<0.150	0.150	07/01/2022	ND	6.64	111	6.00	1.02		
Total BTX	<0.300	0.300	07/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/01/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2022	ND	192	95.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	07/01/2022	ND	195	97.6	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	07/01/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 43-149

Surrogate: 1-Chlorooctadecane 81.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

July 07, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: Y ENERGY STATE COM #001H

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 8:11.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/07/2022	Sampling Type:	Soil
Project Name:	Y ENERGY STATE COM #001H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD - 02659	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SSW - 2 (2') (H222900-01)

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	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/07/2022	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	07/07/2022	ND	188	93.9	200	4.36	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	190	95.1	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 43-149

Surrogate: 1-Chlorooctadecane 85.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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 129785

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 129785
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/27/2023