



December 20, 2022

District Supervisor
Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

**Re: Release Characterization, Site Assessment and Closure Report
ConocoPhillips Company
Heritage Concho
Roy Batty Federal Com CTB
Unit Letter O, Section 11, Township 24 South, Range 33 East
Lea County, New Mexico
Incident ID NAPP2227232374**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess a historical release that occurred from the Roy Batty Federal Com CTB (API # 30-025-41333). The approximate release site coordinates are 32.22501°, -103.54118°, located in the Public Land Survey System (PLSS) Unit Letter O, Section 11, Township 24 South, Range 33 East, Lea County, New Mexico (Site). The Site location is shown on Figures 1 and 2. The Site is located on private land.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on September 22, 2022. The release was reported as the result of a crack in a water transfer line due to corrosion. The release point is located on pad. 12.2 barrels (bbls) of produced water were reported released, of which 0 bbls of produced water were recovered. According to the provided spill calculator, fluid released from the line affected an approximate 5.376 square feet of pad. The New Mexico Oil Conservation District (NMOCD) received the initial C-141 report form for the release on September 29, 2022, and subsequently assigned the release the Incident ID for this release is NAPP2227232374.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, 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.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. The search radius was expanded, and there is one (1) water well within 1,500 meters (approximately 0.93 miles) of the Site with a depth to groundwater of 420 feet below ground surface (bgs).

As the available water level information is from a well farther than ½ mile away from the site, COP elected to drill a boring to verify depth to groundwater. On July 30, 2020, a licensed well drilling subcontractor was onsite to drill a groundwater determination borehole (DTW) to 55 feet bgs, for a separate release associated with Incident ID NOY1811735138. The borehole was located outside the reported release

Tetra Tech

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Release Characterization and Closure Request

December 20, 2022

ConocoPhillips

footprint on the northeast side of the lease pad. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 50 feet bgs. The borehole was plugged with 3/8" bentonite chips. The borehole coordinates are approximately 32.225714°, -103.540550°. The site characterization data and boring log are included in Appendix B. The location of the DTW boring in relation to the release footprint is shown in Figure 3.

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

INITIAL RESPONSE

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after the discovery of a release", COP elected to begin remediation of the impacted area in 2022. The footprint of the release was excavated to an approximate depth of 3 inches bgs to remove the visibly impacted soil. Approximately 100 cubic yards of impacted material was removed during initial response activities. Copies of the waste manifests were not provided. The approximate release extent and initial response area are shown in Figure 3.

INITIAL ASSESSMENT ACTIVITIES

Tetra Tech personnel were onsite to delineate and sample the release area on November 1, 2022. A total of ten (10) soil borings (AH-1 through AH-10) were installed using a hand auger within and around the release area to evaluate the vertical and horizontal extents of the release. These hand auger locations are shown in Figure 4.

A total of eighteen (18) samples were collected from the boring locations, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal) in Hobbs, New Mexico. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation is included in Appendix C. Photographic documentation of the November 2022 site assessment activities is included in Appendix D.

Results from the November 2022 soil sampling event are summarized in Table 1. The analytical results associated with the sampling event were below proposed Site RRALs. Analytical results associated with AH-9 and AH-10 exceeded the delineation requirement for chloride (600 mg/kg) at total depth. Therefore, while the release was successfully horizontally delineated, vertical delineation was not obtained during the November 2022 sampling event.

ADDITIONAL ASSESSMENT ACTIVITIES

Tetra Tech personnel were onsite to complete vertical delineation on December 13, 2022. A total of two (2) soil borings (B-1 and B-2) were installed to a depth of 15 feet bgs. B-1 and B-2 were installed to define the vertical extent of the release area at previous boring locations AH-10 and AH-9, respectively.

Release Characterization and Closure Request

December 20, 2022

ConocoPhillips

A total of fourteen (14) soil samples were collected from the two boring locations, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The samples were analyzed for TPH via Method 8015 Modified, chloride via SM4500Cl-B, and BTEX via Method 8021B. Copies of analytical reports and chain-of-custody documentation are included in Appendix C.

The results of the December 2022 sampling event are summarized in Table 1. All analytical results associated with the sampling event were below the Site RRALs. Additionally, the December 2022 site assessment activities were successful in achieving vertical delineation of the release.

SITE RECLAMATION AND RESTORATION PLAN

Based on the site assessment results, the remaining soils on the developed production lease pad meet the closure criteria of Table I of 19.15.29.12 NMAC. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, the final reclamation of any impact within the lease pad extent shall take place once the Site is no longer being used for oil and gas operations.

CONCLUSION

Based on the results of the site assessment, ConocoPhillips respectfully requests closure of the incident. All analytical results associated with the site assessment were below proposed Site RRALs; therefore, no further remediation of the on-pad release footprint is required. The remaining impact is on a developed pad, fully delineated, and does not pose and imminent risk to human health, the environment, or groundwater. The impacted surface area occurring on the developed pad at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC during the initial response remedial activities.

Based on the above, ConocoPhillips respectfully requests the NMOCD will consider delaying reclamation activities at the Site until the end of life of the battery. On-site reclamation and restoration shall take place in accordance with 19.15.29.13 NMAC once the battery is abandoned and is no longer being used for oil and gas operation. The final C-141 forms are enclosed in Appendix A.

If you have any questions concerning the additional soil assessment or the proposed remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole
Project Lead



Christian M. Llull, P.G.
Project Manager

cc:
Mr. Charles Beauvais, GPBU – ConocoPhillips

Release Characterization and Closure Request
December 20, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response
- Figure 4 – Site Assessment

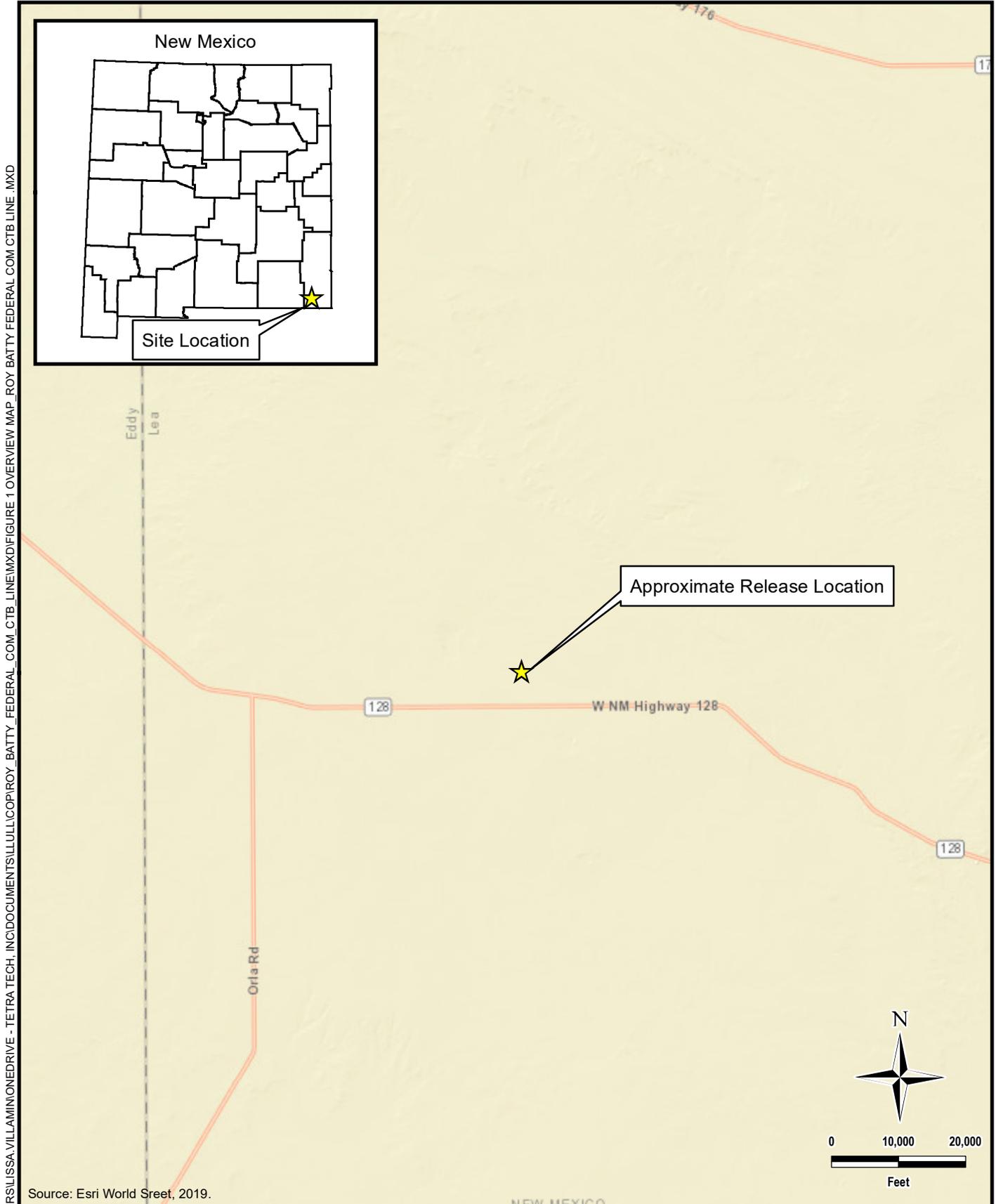
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

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

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INC\DOCUMENTS\111111\COPI\ROY_BATTY_FEDERAL_COM_CTB_LINE\MXD\FIGURE 1\OVERVIEW MAP_ROY_BATTY_FEDERAL_COM_CTB_LINE.MXD

Source: Esri World Sreet, 2019.

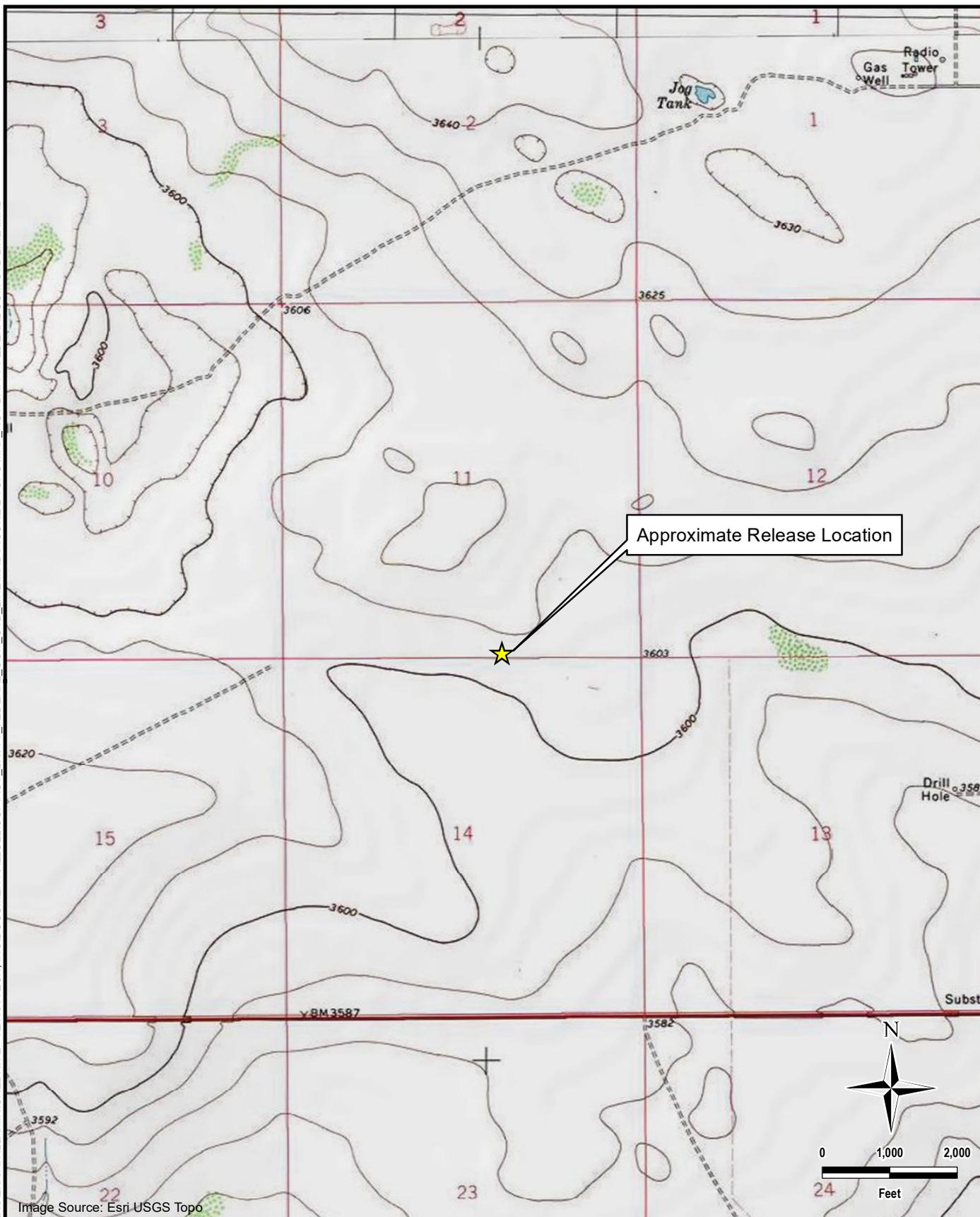
Tt TETRA TECH
 www.tetratech.com
 901 West Wall Street, Suite 100
 Midland, Texas 79701
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 Fax: (432) 682-3946

CONOCOPHILLIPS
 NAPP2227232374
 (32.22501°, -103.54118°)
 LEA COUNTY, NEW MEXICO

**ROY BATTY FEDERAL COM CTB LINE RELEASE
 OVERVIEW MAP**

PROJECT NO.:	212C-MD-02875
DATE:	NOVEMBER 03, 2022
DESIGNED BY:	LMV
Figure No.	1

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Approximate Release Location

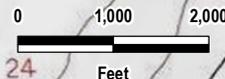


Image Source: Esri USGS Topo



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CONOCOPHILLIPS

NAPP2227232374
(32.22501°, -103.54118°)
LEA COUNTY, NEW MEXICO

**ROY BATTY FEDERAL COM CTB LINE RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02875

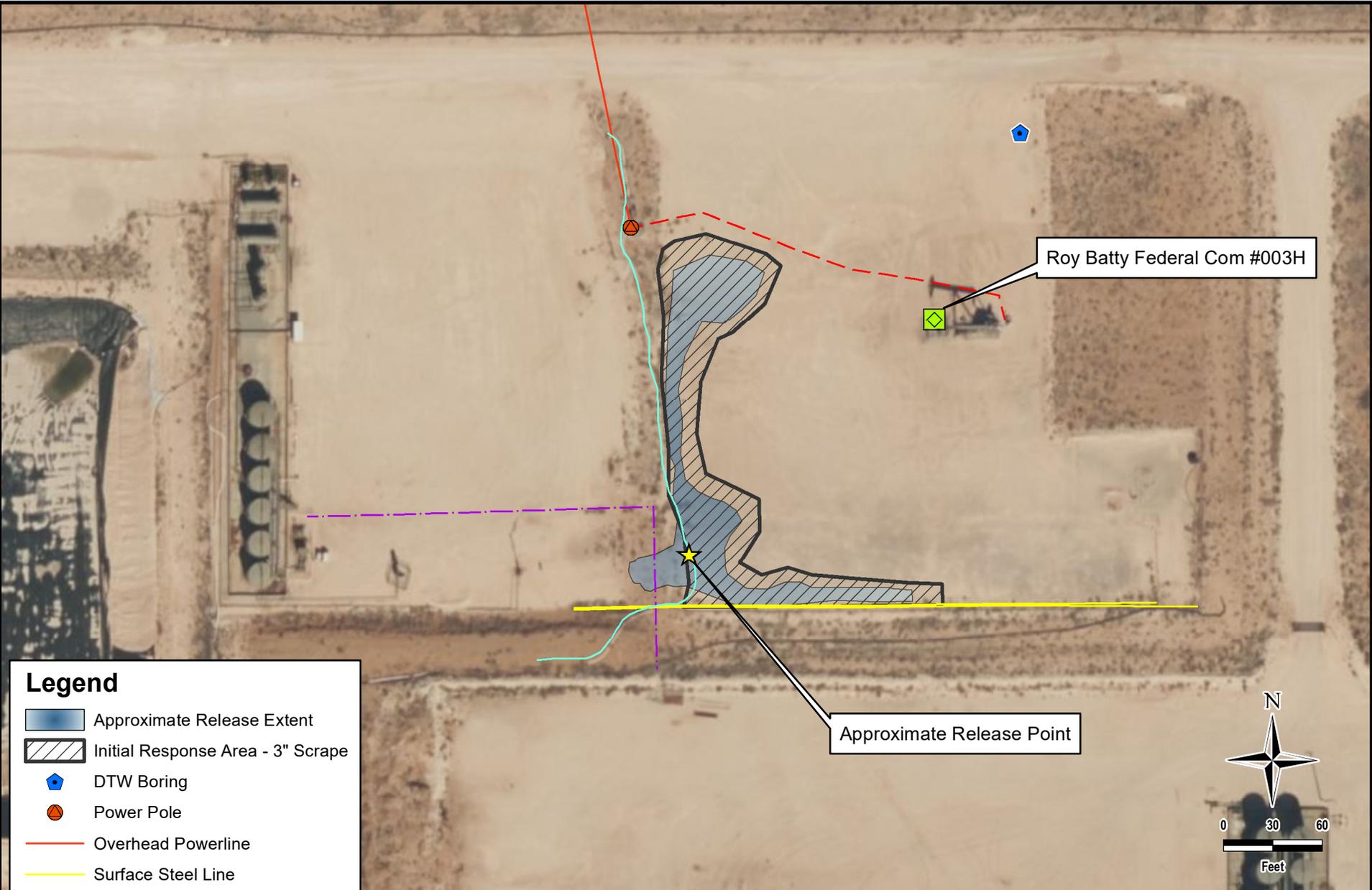
DATE: NOVEMBER 03, 2022

DESIGNED BY: LMV

Figure No.

2

DOCUMENT PATH: C:\USERS\ISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\111111\COPIROY_BATTY_FEDERAL_COM_CTB_LINE\FIGURE 3 RELEASE AND RESPONSE ROY_BATTY_FEDERAL_COM_CTB_LINE.MXD



Legend

- Approximate Release Extent
- Initial Response Area - 3" Scrape
- ◆ DTW Boring
- Power Pole
- Overhead Powerline
- Surface Steel Line
- Surface Polyline
- Subsurface Electrical Line
- Subsurface Gas Line

Image Source: Bing Maps.

Approximate Release Point

Roy Batty Federal Com #003H



Tt TETRA TECH

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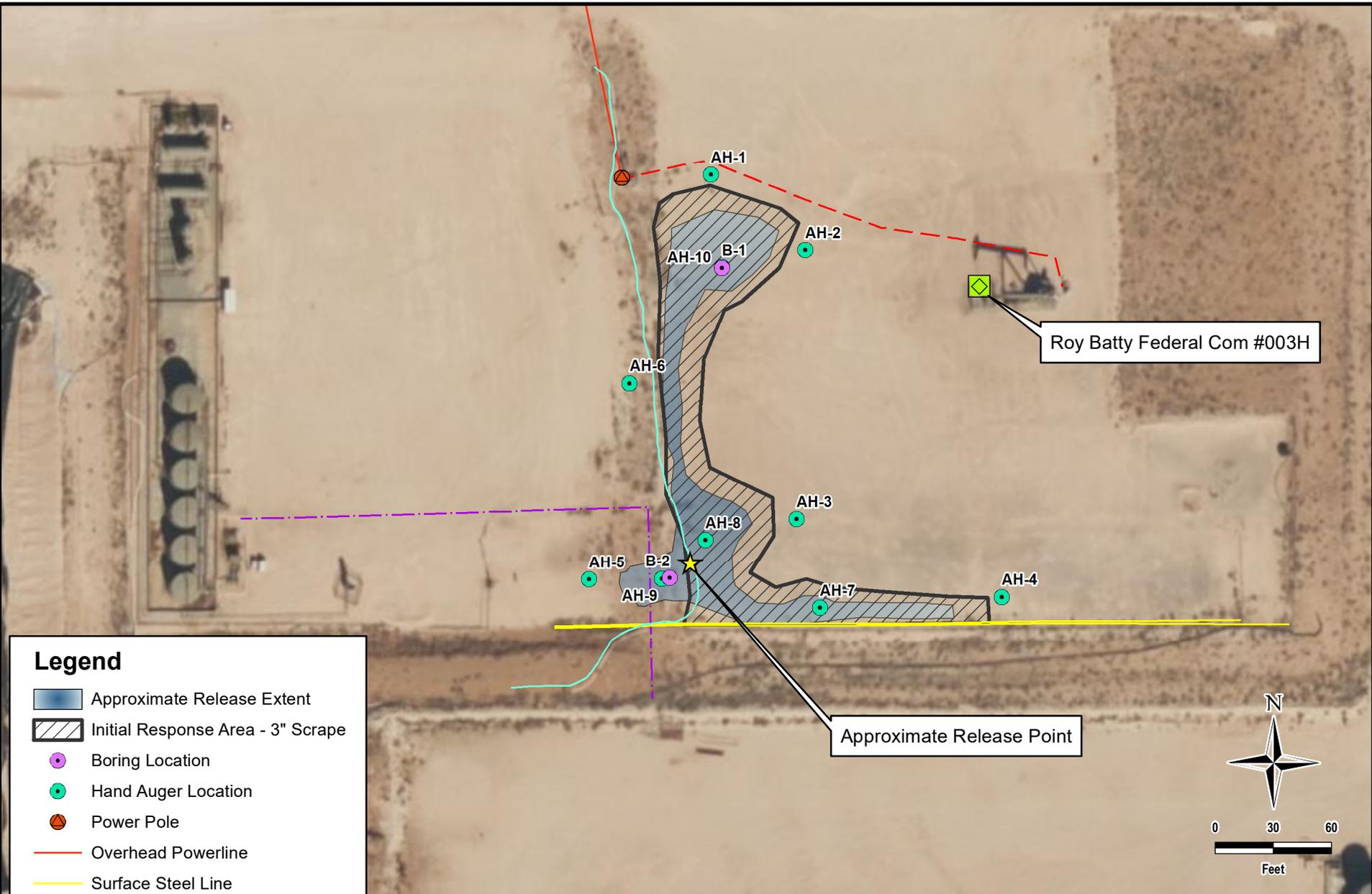
CONOCOPHILLIPS

NAPP2227232374
(32.22501°, -103.54118°)
LEA COUNTY, NEW MEXICO

**ROY BATTY FEDERAL COM CTB LINE RELEASE
APPROXIMATE RELEASE EXTENT AND INITIAL RESPONSE**

PROJECT NO.:	212C-MD-02875
DATE:	DECEMBER 20, 2022
DESIGNED BY:	LMV
Figure No.	3

DOCUMENT PATH: C:\USERS\ISSA\VIAMINIONEDRIVE - TETRA TECH\INCIDENTS\LUILLUCOPIROY_BATTY_FEDERAL_COM_CTB_LINE\FIGURE 4 SITE ASSESSMENT_ROY_BATTY_FEDERAL_COM_CTB_LINE\MXD



Legend

- Approximate Release Extent
- Initial Response Area - 3" Scrape
- Boring Location
- Hand Auger Location
- Power Pole
- Overhead Powerline
- Surface Steel Line
- Surface Polyline
- Subsurface Electrical Line
- Subsurface Gas Line

Image Source: Bing Maps.

 TETRA TECH www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS NAPP2227232374 (32.22501°, -103.54118°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-02875 DATE: DECEMBER 19, 2022 DESIGNED BY: LMV
	ROY BATTY FEDERAL COM CTB LINE RELEASE SITE ASSESSMENT	

TABLE

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2227232374
CONOCOPHILLIPS
ROY BATTY FEDERAL COM CTB LINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		BTEX ²										TPH ³						
			ppm	Q	mg/kg	Q	Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO) mg/kg
							mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-1	11/1/2022	0-1	159		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-2	11/1/2022	0-1	63.0		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-3	11/1/2022	0-1	51.1		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-4	11/1/2022	0-1	77.2		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-5	11/1/2022	0-1	298		144		0.170		0.461		0.180		<0.150		0.811		<10.0		<10.0		<10.0		-
AH-6	11/1/2022	0-1	47.7		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-7	11/1/2022	0-1	1,640		1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		825		240		1,065
		2-3	218		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		91.5		24.5		116
		3-4	201		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-8	11/1/2022	0-1	3,330		4,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.0		<10.0		22.0
		2-3	150		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	76.2		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-9	11/1/2022	0-1	-		6,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	3,410		6,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	5,030		6,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-10	11/1/2022	0-1	4,410		6,260		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	920		736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-3.5	1,020		1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
B-1	12/13/2022	0-1	4,920		4,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	1,110		688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	1,370		1,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,470		1,170		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	786		688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		8-9	719		496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
B-2	12/13/2022	14-15	302		240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		0-1	2,040		2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	5,090		4,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		3-4	5,050		4,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	3,680		2,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	947		960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
B-2	12/13/2022	8-9	290		112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		14-15	250		144		<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

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	NAPP2227232374
District RP	
Facility ID	fAPP2203859468
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2227232374
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.22501 Longitude -103.54118
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Roy Battery Federal Com CTB	Site Type	Tank Battery
Date Release Discovered	September 22, 2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	11	24S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: NGL Water Solutions Permian, LLC.)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 12.2	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a crack in a line due to corrosion.
The release was off the pad. Evaluation will be made at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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: <u></u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>09/29/2022</u>

L48 Spill Volume Estimate Form

Received by OCD: 9/29/2022 9:04:34 AM

Page 3 of 4

Facility Name & Number:	Roy Batty Fed Com CTB Water Transfer Line
Asset Area:	DBE
Release Discovery Date & Time:	9/22/2022 8:30
Release Type:	Produced Water
Provide any known details about the event:	Leak on water transfer line to disposal

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated Pool Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	64.0	84.0	0.50	4	5376.000	0.010	9.968	0.001	9.973
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume Release:									9.973

Released to Imaging: 9/29/2022 9:21:15 AM

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 147237

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 147237
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/29/2022

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 III Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 12/27/2022

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: 12/27/2022

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: Jennifer Nobui Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Site Characterization Data

212C-MD-02847	TETRA TECH	LOG OF BORING DTW	Page 1 of 1
---------------	-------------------	--------------------------	----------------

Project Name: Roy Batty Federal Com #003H Flange Release

Borehole Location/GPS Coordinates: 32.225714°, -103.540550° Surface Elevation: 3612 ft

Borehole Number: DTW Borehole Diameter (in.): 8 Date Started: 7/30/2020 Date Finished: 7/30/2020

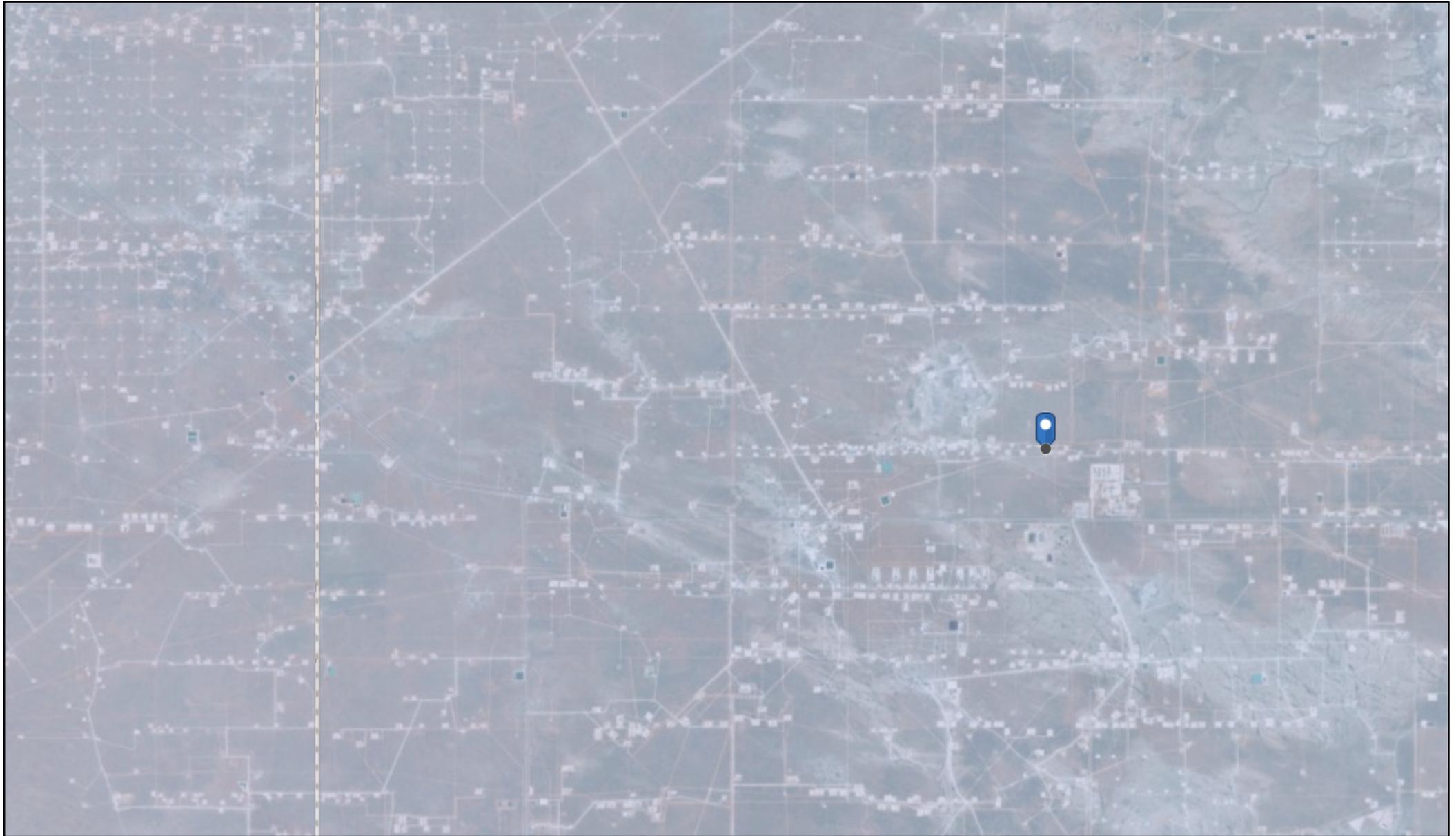
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION			
5														1	
10														14	
15														23	
20															
25															
30															
35															
40															
45															
50														47	
55														55	

Bottom of borehole at 55.0 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear Discrete Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an estimated value based on Google Earth data.
--	--	---	--	--

Logger: _____ Drilling Equipment: Air Rotary Driller: Scarborough Drilling

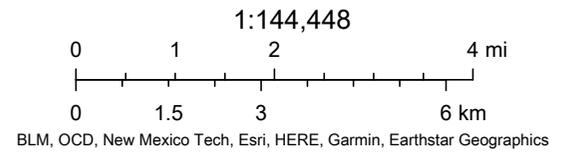
OCD Karst Potential Map



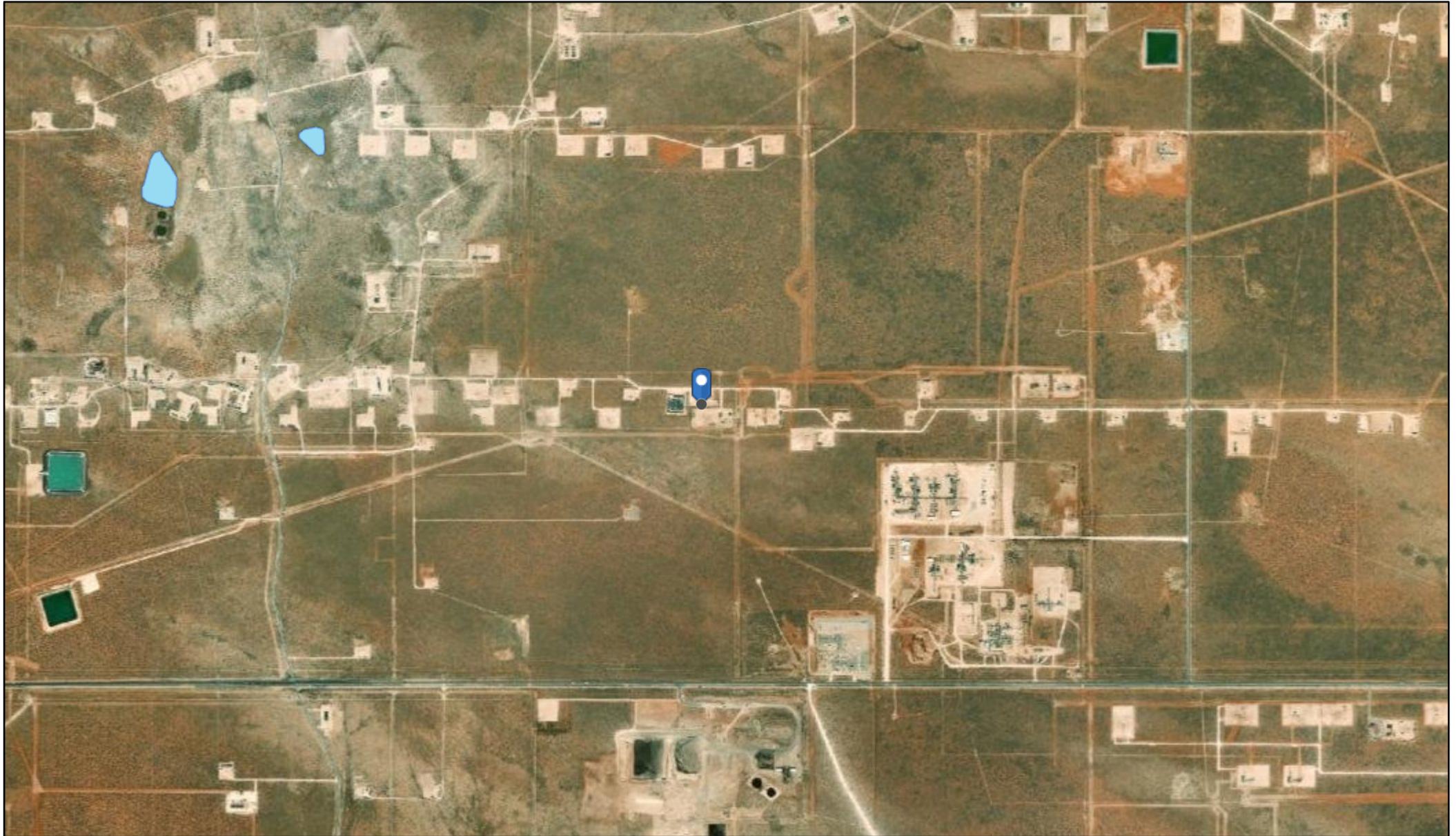
11/10/2022, 2:22:01 PM

Karst Occurrence Potential

 Low

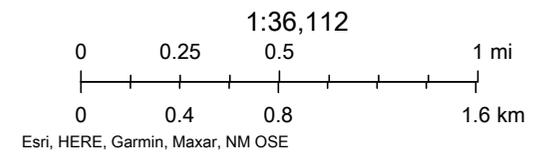


OCD Waterbodies Map



11/10/2022, 2:24:00 PM

 OSW Water Bodys





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
C 03917 POD1	C	LE		4	1	3	13	24S	33E	638374	3565212	1428	600	420	180

Average Depth to Water: **420 feet**

Minimum Depth: **420 feet**

Maximum Depth: **420 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 637459.77

Northing (Y): 3566310.5

Radius: 1500

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.

APPENDIX C

Laboratory Analytical Data



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

November 08, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ROY BATTY FED. COM. SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/01/22 13:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 1 (0-1') (H225133-01)

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	11/08/2022	ND	2.07	103	2.00	1.74	
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.0 % 46.3-178

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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 2 (0-1') (H225133-02)

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	11/08/2022	ND	2.07	103	2.00	1.74	
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	196	98.2	200	2.98	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	192	96.2	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.8 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 3 (0-1') (H225133-03)

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	11/08/2022	ND	2.07	103	2.00	1.74	
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	32.0	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 4 (0-1') (H225133-04)

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	11/08/2022	ND	2.07	103	2.00	1.74	
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53	
Total BTEX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	32.0	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 5 (0-1') (H225133-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.170	0.050	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	0.461	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	0.180	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	0.811	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	144	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 6 (0-1') (H225133-06)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	16.0	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 7 (0-1') (H225133-07)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	1340	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	825	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	240	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 174 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 7 (2'-3') (H225133-08)

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	11/06/2022	ND	2.01	100	2.00	0.379		
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906		
Total BTEX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	80.0	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72		
DRO >C10-C28*	91.5	10.0	11/02/2022	ND	215	108	200	10.1		
EXT DRO >C28-C36	24.5	10.0	11/02/2022	ND						

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 7 (3'-4') (H225133-09)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 8 (0-1') (H225133-10)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	4400	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	22.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 8 (2'-3') (H225133-11)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	64.0	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 8 (3'-4') (H225133-12)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 9 (0-1') (H225133-13)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	6960	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	207	104	200	7.72	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	215	108	200	10.1	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 9 (2'-3') (H225133-14)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	6640	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	213	106	200	7.59	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	240	120	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 69.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.4 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 9 (3'-4') (H225133-15)

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	11/06/2022	ND	2.01	100	2.00	0.379		
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906		
Total BTEX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	6400	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	213	106	200	7.59		
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	240	120	200	18.0		
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND						

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 10 (0-1') (H225133-16)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	6260	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	213	106	200	7.59	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	240	120	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 10 (2'-3') (H225133-17)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	736	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	213	106	200	7.59	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	240	120	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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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:	11/01/2022	Sampling Date:	11/01/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. SWD	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: AH - 10 (3'-3.5') (H225133-18)

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	11/06/2022	ND	2.01	100	2.00	0.379	
Toluene*	<0.050	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	6.20	103	6.00	0.906	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	1120	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	213	106	200	7.59	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	240	120	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

P.O. #:
 Company: *TRHA Trcl*
 Attn: *CHRISTEN LULL*
 Address:
 City:
 State: *by email*
 Zip:

Project Manager: *Conrad Phillips*
 Address:
 City:
 State:
 Zip:

Project Name: *2022-MD-022875*
 Project Owner:
 City:
 State:
 Zip:

Project Location: *Ray Batts Fed. Lem. SWD*
 Phone #:
 Fax #:

Sampler Name: *Christen Bhatnagar*
 Matrix:
 Preservation:
 Sampling:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides
<i>1535133</i>	<i>AH-1 (0-1')</i>		<i>5</i>			<input checked="" type="checkbox"/>							<i>11/1/22</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>AH-2 (0-1')</i>		<i>1</i>														
	<i>AH-3 (0-1')</i>		<i>1</i>														
	<i>AH-4 (0-1')</i>		<i>1</i>														
	<i>AH-5 (0-1')</i>		<i>1</i>														
	<i>AH-6 (0-1')</i>		<i>1</i>														
	<i>AH-7 (0-1')</i>		<i>1</i>														
	<i>AH-7 (2-3')</i>		<i>1</i>														
	<i>AH-7 (3-4')</i>		<i>1</i>														
	<i>AH-8 (0-1')</i>		<i>1</i>														

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Relinquished By: *Christen Bhatnagar*
 Date: *11/1/22*
 Time: *1301*
 Received By: *Christen Lull*
 Date: *11/1/22*
 Time: *1301*

Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: *23.8*
 Corrected Temp. °C: *23.2*
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *SR* (Initials)
 Turnaround Time: *0.10*
 Standard Rush
 Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com
SR 11-1-22



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: ConocoPhillips
 Project Manager: Christy Hall
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #: 24C-MD-02875 Project Owner:
 Project Name: Ros Botto, Pat. con SWD
 Project Location: Lee County, MN
 Sampler Name: Colton Becker
 P.O. #: Company: Tetra Tech
 Attn: Christy Hall
 Address: by email
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX		PRESERV.		DATE	TIME	TPH	BTEX	Chlorides
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL					
<u>H28133</u>	<u>AAH-8 (2-3)</u>	<u>6</u>	<u>1</u>			<u>X</u>		<u>11/1/22</u>		<u>X</u>		
	<u>AAH-8 (3-4)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-9 (0-1)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-9 (2-3)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-9 (3-4)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-10 (0-1)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-10 (2-3)</u>	<u>1</u>	<u>1</u>									
	<u>AAH-10 (3-4)</u>	<u>1</u>	<u>1</u>									

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Relinquished By: [Signature] Date: 11/1/22 Received By: [Signature]
 Relinquished By: [Signature] Date: 1/30/23 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 23.8 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 23.2 Checked By: [Signature] (Initials)
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Turnaround Time: Standard Rush
 Thermometer ID #113 0.0 Bacteria (only) Sample Condition Cool Intact Yes No
 Correction Factor 0.0 Corrected Temp. °C Yes No

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



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

December 16, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ROY BATTY FED. COM. CTB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/13/22 12:38.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (0-1') (H225866-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2022	ND	2.22	111	2.00	1.83	
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.89	
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.26	113	2.00	3.09	
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.83	114	6.00	3.12	
Total BTEX	<0.300	0.300	12/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	12/14/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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

Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (2'-3') (H225866-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.13	107	2.00	0.472	
Toluene*	<0.050	0.050	12/14/2022	ND	2.23	111	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.18	109	2.00	1.16	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.75	112	6.00	1.12	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (3'-4') (H225866-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.13	107	2.00	0.472	
Toluene*	<0.050	0.050	12/14/2022	ND	2.23	111	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.18	109	2.00	1.16	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.75	112	6.00	1.12	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (4'-5') (H225866-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.13	107	2.00	0.472	
Toluene*	<0.050	0.050	12/14/2022	ND	2.23	111	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.18	109	2.00	1.16	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.75	112	6.00	1.12	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (6'-7') (H225866-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (8'-9') (H225866-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.3 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 1 (14'-15') (H225866-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	194	96.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	192	95.9	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 68.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.8 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (0-1') (H225866-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (2'-3') (H225866-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

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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:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (3'-4') (H225866-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (4'-5') (H225866-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (6'-7') (H225866-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (8'-9') (H225866-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.3 % 46.3-178

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Analytical Results For:

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

Received:	12/13/2022	Sampling Date:	12/13/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	ROY BATTY FED. COM. CTB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02875	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: B - 2 (14'-15') (H225866-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	ND	2.04	102	2.00	2.43	
Toluene*	<0.050	0.050	12/14/2022	ND	2.14	107	2.00	2.42	
Ethylbenzene*	<0.050	0.050	12/14/2022	ND	2.13	106	2.00	5.35	
Total Xylenes*	<0.150	0.150	12/14/2022	ND	6.55	109	6.00	4.42	
Total BTEX	<0.300	0.300	12/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/14/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/14/2022	ND	211	105	200	7.12	
DRO >C10-C28*	<10.0	10.0	12/14/2022	ND	205	102	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/14/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Tetra Tech

Attn: Christina Hill

Address: by email

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Project #: 212-MD-02875 Project Owner: _____

Project Name: Roy Batty Red. Con CTB Release

Project Location: Lea County, NM

Sampler Name: Colton Keene

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<u>H225866</u>																	
	<u>11 B-2-C4-5'1)</u>		<u>6</u>			<u>X</u>					<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>
	<u>12 B-2-C6-7'1)</u>		<u>1</u>														
	<u>13 B-2-C8-9'1)</u>		<u>1</u>														
	<u>14 B-2-C14-15'1)</u>		<u>1</u>														

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Relinquished By: _____ Date: 12/13/22 Received By: _____ Date: 12/13/22

Relinquished By: Celestine Date: 12/13/22 Received By: Christina Hill Date: 12/13/22

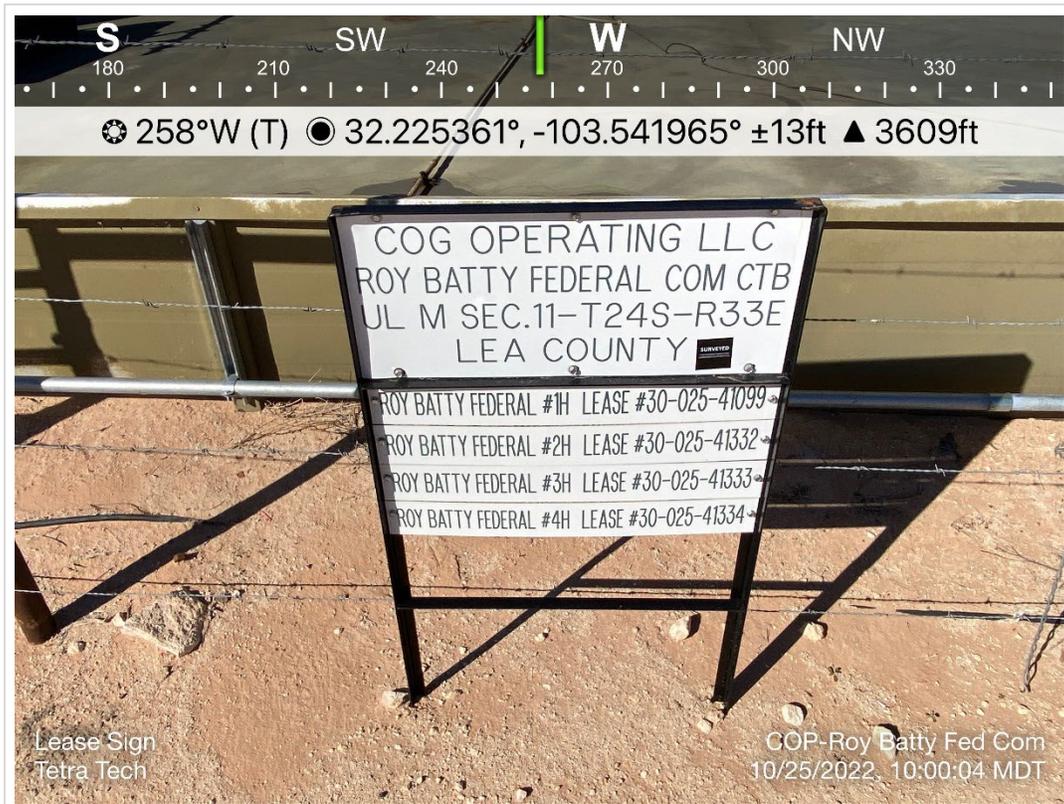
Delivered By: (Circle One) Observed Temp. °C 13.6 Sample Condition: Cool Intact Yes No

Corrected Temp. °C 13.0 CHECKED BY: (Initials) TK Turnaround Time: _____ Standard Rush Bacteria (only) Yes No

2/12

APPENDIX D

Photographic Documentation



Lease Sign
Tetra Tech

COP-Roy Batty Fed Com
10/25/2022, 10:00:04 MDT

TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	Site Signage. Roy Batty Federal Com CTB	1
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	10/25/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	Release point on above ground piping. Southeast quadrant of the extent	2
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	View northeast. View of release extent.	3
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	Pooling of released substance.	4
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	View southwest. Corner of the extent looking North. Release in sight with pooling.	5
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



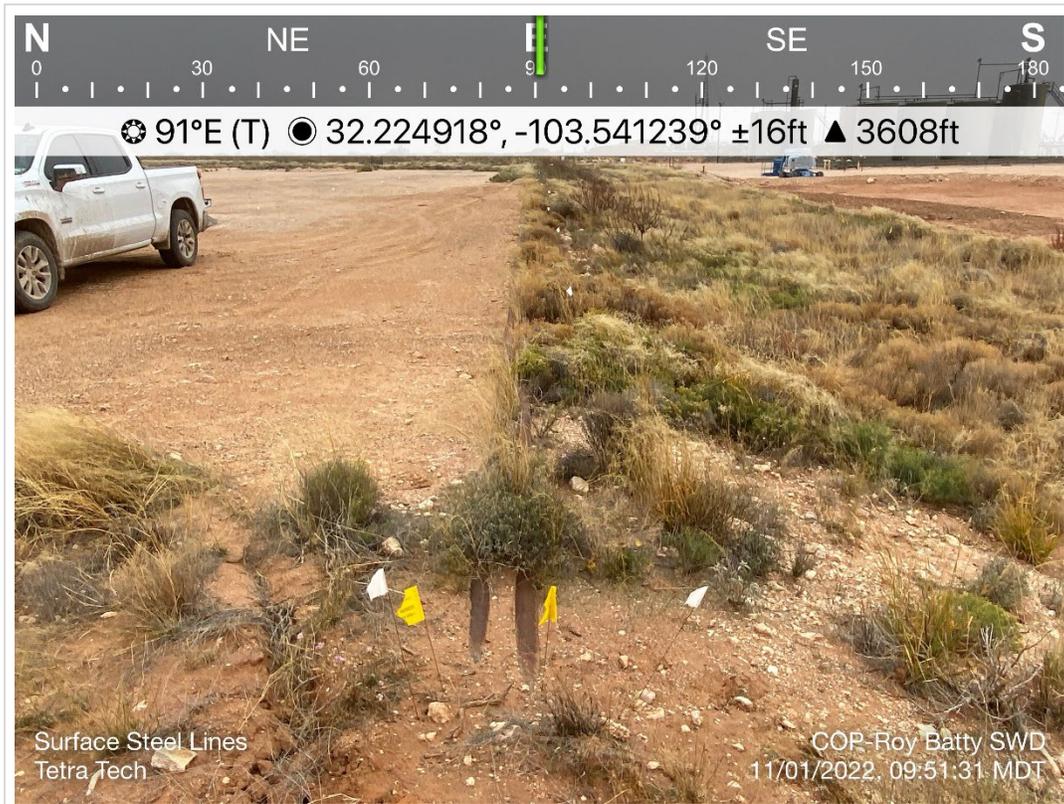
TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	View southeast. View of release extent and production equipment.	6
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	Western perimeter of release extent showing scrape.	7
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	Southwester perimeter of the extent beside the above ground flowline.	8
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	9/28/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	View east of the scraped area.	9
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	11/01/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02875	DESCRIPTION	View north. Vegetation present. Berm area.	10
	SITE NAME	ConocoPhillips Roy Batty Federal Com CTB	11/1/2022

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 170261

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 170261
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	1/20/2023