



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

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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.

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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 an 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

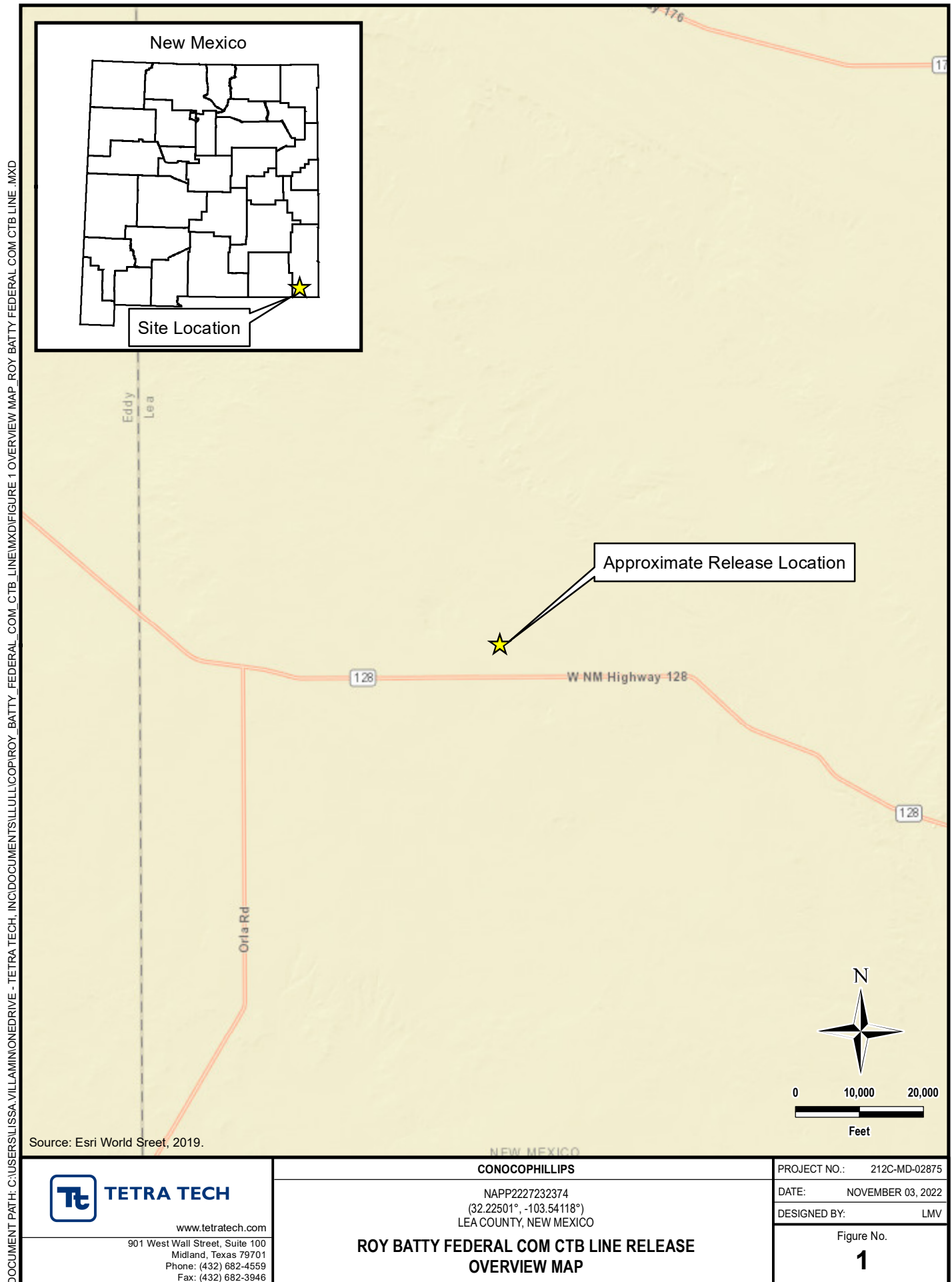
**Tables:**

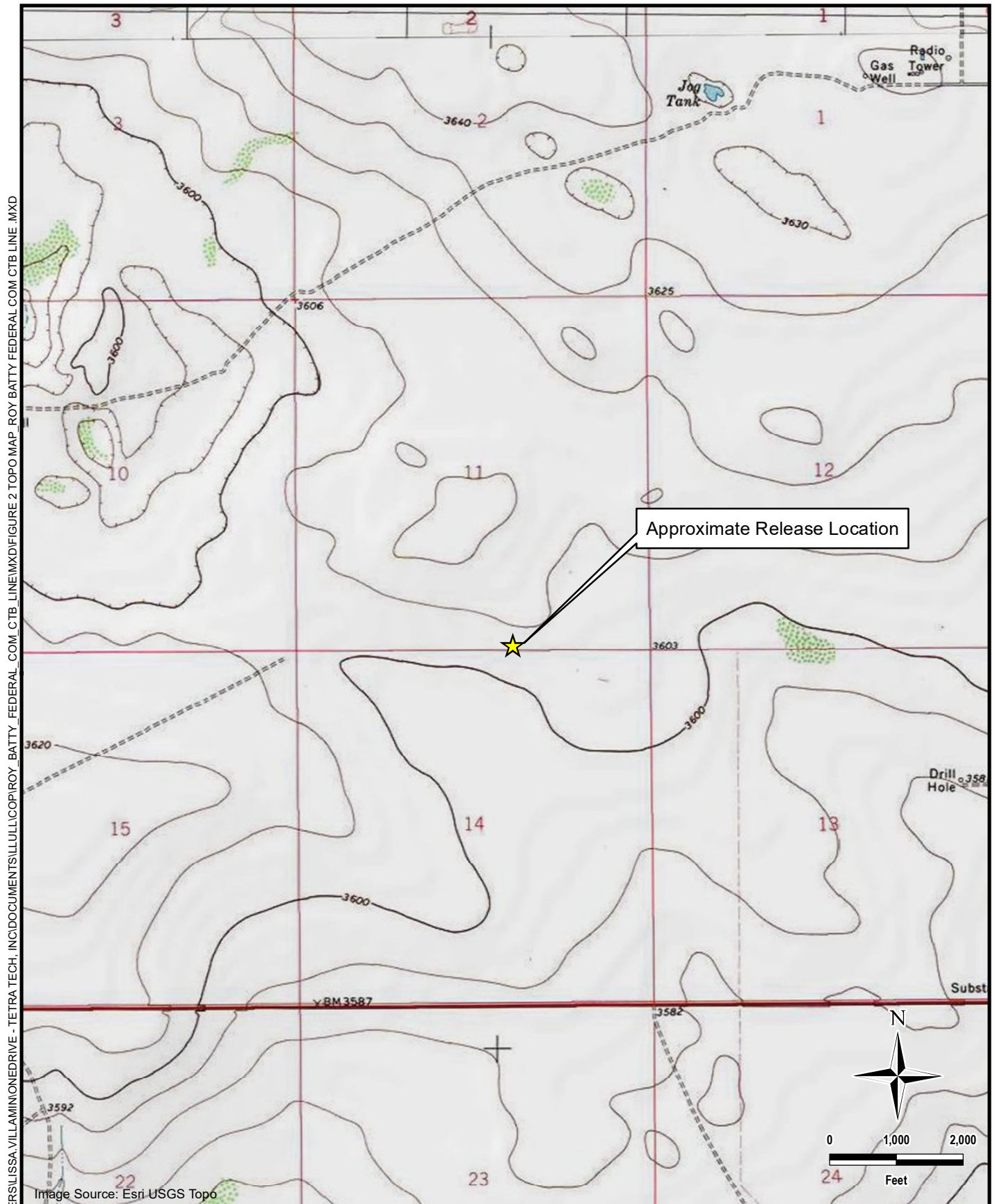
- Table 1 – Summary of Analytical Results – Soil Assessment

**Appendices:**

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

## **FIGURES**





**TETRA TECH**

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**CONOCOPHILLIPS**

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

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

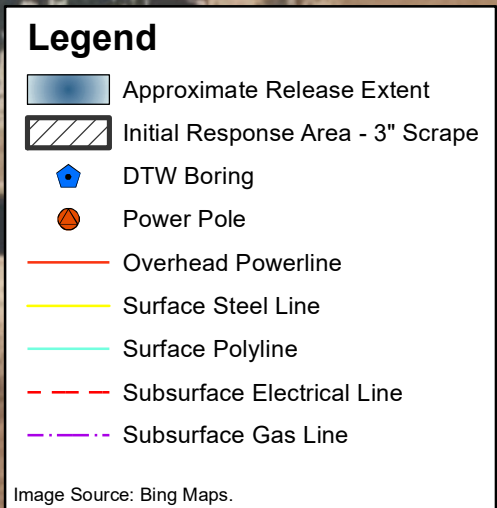
PROJECT NO.: 212C-MD-02875

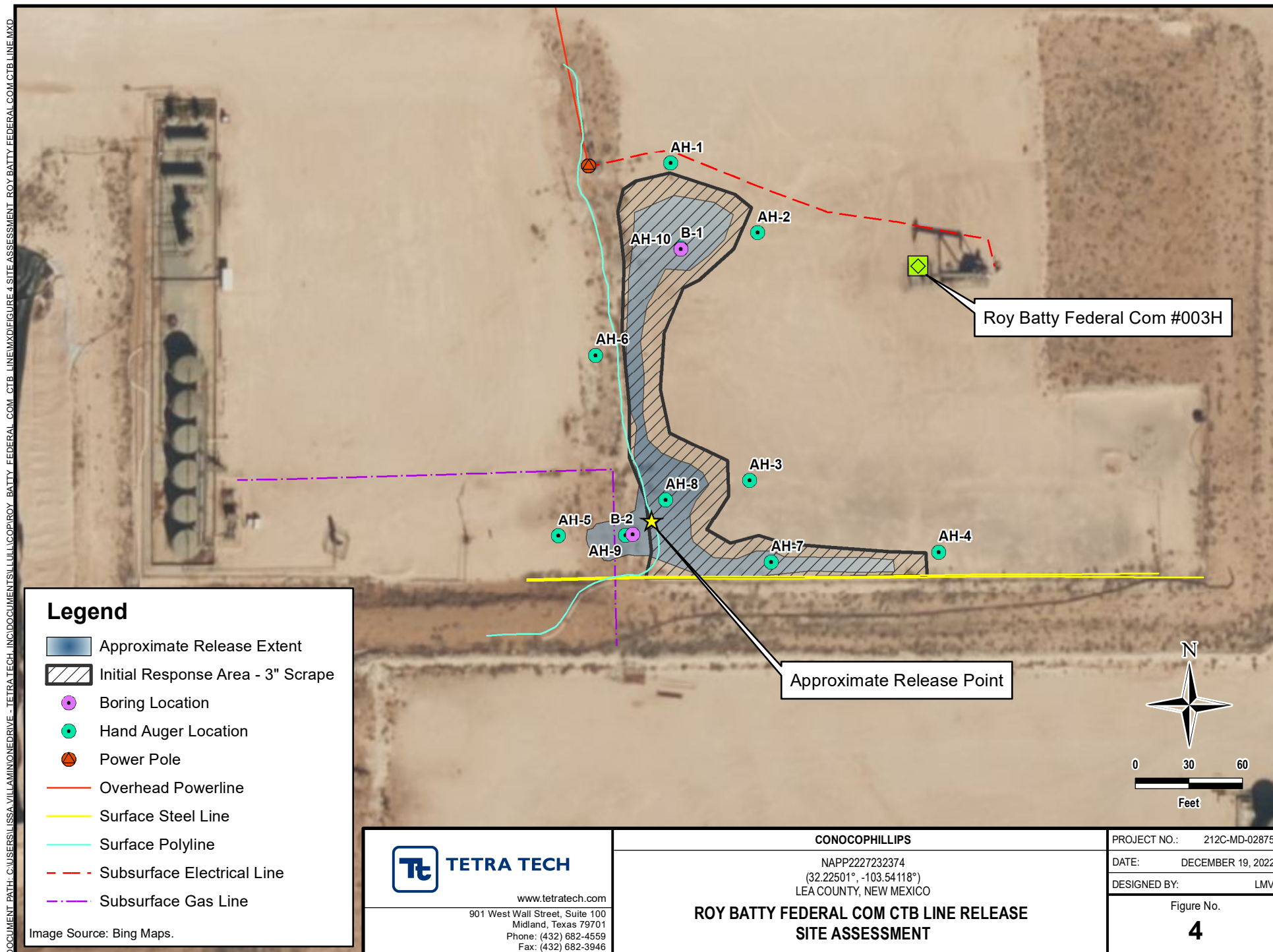
DATE: NOVEMBER 03, 2022

DESIGNED BY: LMV

Figure No.

**2**





## 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 <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
			Chloride			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
			ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	(GRO+DRO+EXT DRO)
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		-
		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 SM4500Cl-B

2 Method 8021B

3 Method 8015M

## **APPENDIX A C-141 Forms**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

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.

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: _____
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>09/29/2022</u>

## L48 Spill Volume Estimate Form

Received by OCD: 9/29/2022 9:04:24 AM

Facility Name &amp; Number: Roy Batty Fed Com CTB Water Transfer Line

Page 3 of 4

Asset Area: DBE

Release Discovery Date &amp; 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 <u>Pool</u> 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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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

Signature: Charles R. Beauvais II Date: \_\_\_\_\_

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

**OCD Only**

Received by: Jocelyn Harimon Date: 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 OCD 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**

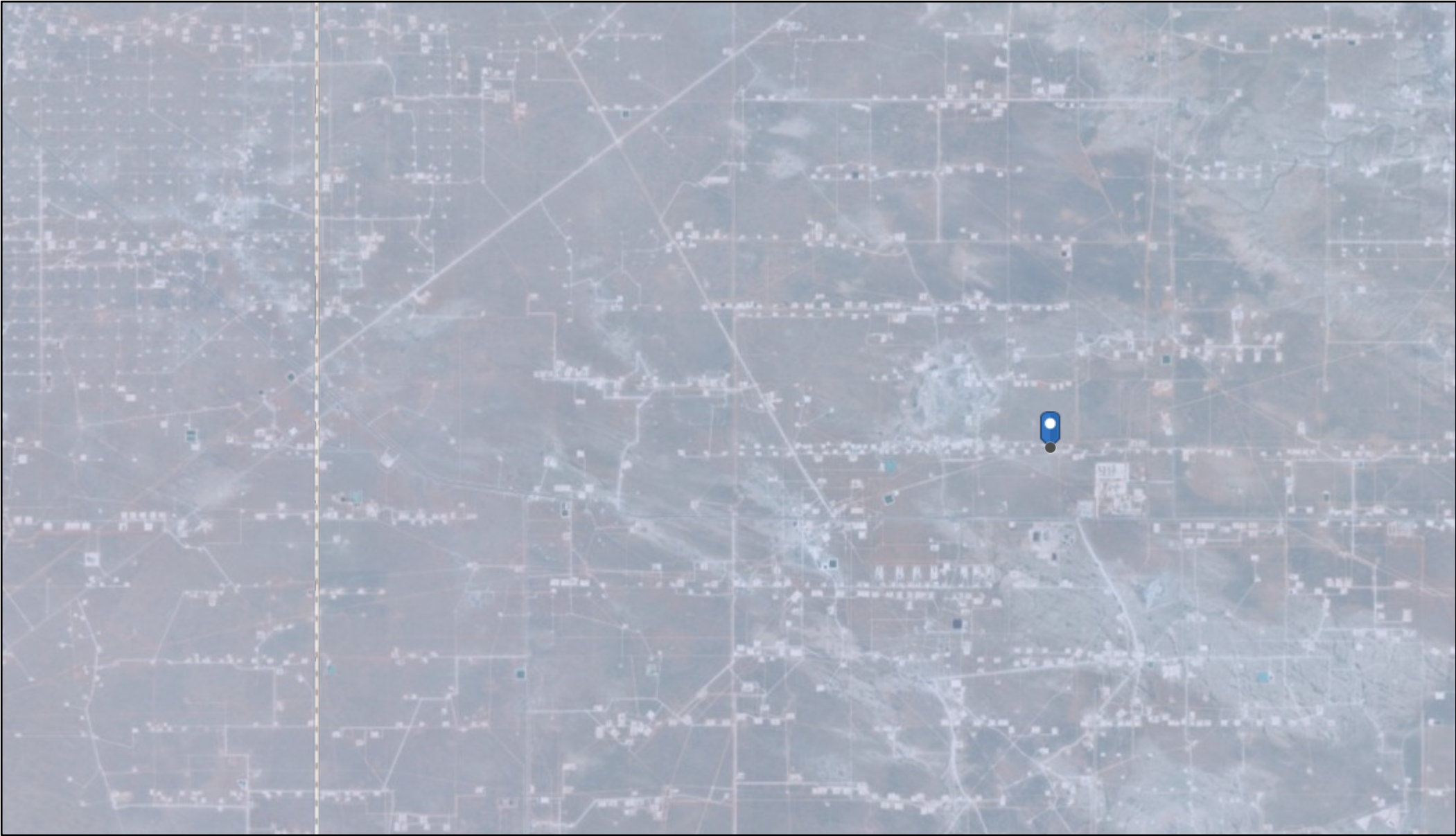
212C-MD-02847		<b>TETRA TECH</b>		<b>LOG OF BORING DTW</b>			Page 1 of 1	
Project Name: Roy Batty Federal Com #003H Flange Release								
Borehole Location GPS Coordinates: 32.225714°, -103.540550°				Surface Elevation: 3612 ft				
Borehole Number: DTW			Borehole Diameter (in.): 8		Date Started: 7/30/2020		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		
			ExStik	PID								-- <u>DRY</u> ft <u>DRY</u> ft Remarks:			
												<b>MATERIAL DESCRIPTION</b>			
5												-- CALICHE: Pale brown to tan, fine- to coarse-grained, hard, dry (Caliche Pad)		1	
10												-SM- SILTY SAND: Light brown, fine- to medium-grained, dense to very dense, dry, with Caliche nodules		14	
15												-SM- CALICHE: Light brown to tan, fine- to medium-grained, hard, dry, weakly to moderately cemented		23	
20												-SP- SAND: Light brown to brown, fine- to medium-grained, dense, dry, with occasional silt pockets		47	
25												-- SHALE: Red, hard, dry		55	
30															
35															
40															
45															
50															
55															

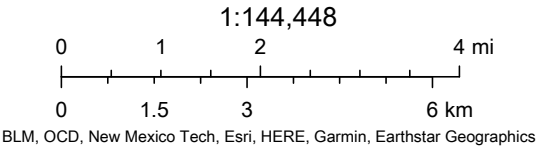
Bottom of borehole at 55.0 feet.

<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   Discrete Sample   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>	<b>Notes:</b> Surface elevation is an estimated value based on Google Earth data.
<b>Logger:</b>	<b>Drilling Equipment:</b> Air Rotary	<b>Driller:</b> Scarborough Drilling

# OCD Karst Potential Map



11/10/2022, 2:22:01 PM  
Karst Occurrence Potential  
 Low

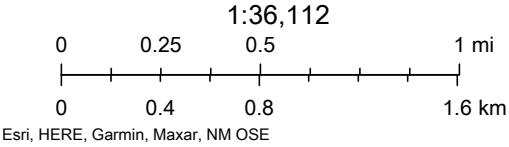


OCD Waterbodies Map



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
<a href="#">C 03917 POD1</a>	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.

11/10/22 1:29 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

## **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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

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

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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



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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 - 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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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 - 4 (0-1') (H225133-04)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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\*=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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**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
<b>Benzene*</b>	<b>0.170</b>	0.050	11/06/2022	ND	2.01	100	2.00	0.379	
<b>Toluene*</b>	<b>0.461</b>	0.050	11/06/2022	ND	2.06	103	2.00	0.402	
<b>Ethylbenzene*</b>	<b>0.180</b>	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	
<b>Total BTEX</b>	<b>0.811</b>	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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
<b>Chloride</b>	<b>144</b>	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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\*=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 - 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, SM4500Cl-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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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 - 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, SM4500Cl-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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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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

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

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

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

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	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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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 - 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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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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

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

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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 - 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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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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**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



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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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**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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\*=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  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

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

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	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, SM4500Cl-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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	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)**

BTX 8021B		mg/ kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/01/2022  
 Reported: 11/08/2022  
 Project Name: ROY BATTY FED. COM. SWD  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 11/01/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Cardinal Laboratories

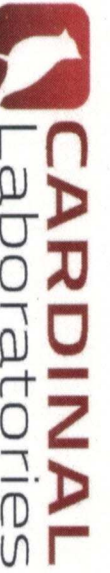
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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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

1/2

Company Name: <u>Cardinal Philups</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Christen Lull</u>		Company: <u>TEHA Tech</u>		Attn: <u>Christen Lull</u>			
Address:		City:		State:		Zip:	
City:		State:		Zip:			
Phone #:		Fax #:		Address:		by email	
Project #: <u>2022-MD-022875</u>		Project Owner:		City:		State:	
Project Name: <u>Roy B-Hwy Fed. Lem. SWD</u>		State:		Zip:			
Project Location: <u>Lea County, NM</u>		Phone #:		Fax #:			
Sample Name: <u>Coltan B-Hwy SWD</u>		Matrix:		PRESERV.		SAMPLING	
FOR LAB USE ONLY		DATE		TIME			
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS			
GROUNDWATER		WASTEWATER		SOIL			
OIL		SLUDGE		OTHER :			
ACID/BASE:		ICE / COOL		OTHER :			
1036133		61		11/1/22		TPH	
1		X		X		BTX	
2		X		X		Chlorides	
3		X		X			
4		X		X			
5		X		X			
6		X		X			
7		X		X			
8		X		X			
9		X		X			
10		X		X			
PLEASE NOTE: Liability and damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Date: <u>11/1/22</u>		Received By: <u>Christen Lull</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Relinquished By: <u>Christen Lull</u>		Time: <u>1301</u>		Date: <u>1301</u>		Add'l Phone #:	
Delivered By: (Circle One)		Observed Temp. °C: <u>23.8</u>		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>SL</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>23.2</u>		Thermometer ID #13		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
FORM 5000 R 3-2-10/07/12		Correction Factor: <u>-0.10</u>		Bacteria (only) <input type="checkbox"/> Sample Condition: <input type="checkbox"/> Observed Temp. °C: <input type="checkbox"/> Corrected Temp. °C: <input type="checkbox"/>		REMARKS: <u>Christen Lull @statach.com</u>	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

SL 11-1-22



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>CARDINAL PHILIPS</b>						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>													
Project Manager: <b>CHRISTIAN LULL</b>						P.O. #:																			
Address:						Company: <b>Tetra Tech</b>																			
City:						Attn: <b>Christian Hall</b>																			
State:						Address: <b>by email</b>																			
Zip:																									
Phone #:						City:																			
Fax #:						State:																			
Project #: <b>2MC-MD-02875</b>						Project Owner:																			
Project Name: <b>Ros Betty Fed. con SWD</b>						City:																			
Project Location: <b>Lee County, MN</b>						State:																			
Sample Name: <b>Cotton Bakerfield</b>						Phone #:																			
FOR LAB USE ONLY						Fax #:																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX			PRESERV.	SAMPLING														
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides					
<b>H288133</b>		AH-8 (2'-3')	G1	X											11/1/22		X	X	X						
11		AH-8 (3'-4')																							
12		AH-9 (0-1')																							
13		AH-9 (2'-3')																							
14		AH-9 (3'-4')																							
15		AH-10 (0-1')																							
16		AH-10 (2-3')																							
17		AH-10 (3-4') 3.5'																							
18																									

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Relinquished By: _____		Date: <b>11/1/22</b>	Received By: <b>Steddie King</b>
Relinquished By: _____		Date: _____	Received By: _____
Time: <b>1:30i</b>		Time: _____	
Date: _____		Date: _____	
Time: _____		Time: _____	

Delivered By: (Circle One)  
☒ UPS    ☐ Bus    ☐ Other

Observed Temp. °C: **23.8°C**    Sample Condition: Cool Intact ☒ Yes ☐ No  
Corrected Temp. °C: **23.2°C**    Checked BY: (Initials) **SK**

Turnaround Time: \_\_\_\_\_    Standard Rush ☒ Add'l Phone #: \_\_\_\_\_  
Thermometer ID #113    Bacteria (only) Sample Condition: Cool Intact ☒ Yes ☐ No  
Correction Factor -0.5°C    Observed Temp. °C: \_\_\_\_\_    Corrected Temp. °C: \_\_\_\_\_

REMARKS: **Christian Lull @ tetra tech.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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	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)**

BTX 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 BTX	<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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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 (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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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 - 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, SM4500Cl-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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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 - 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, SM4500CI-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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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 - 1 (6'-7') (H225866-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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 - 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)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2022	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 BTX	<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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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 (0-1') (H225866-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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 (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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\*=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:	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  
 Reported: 12/16/2022  
 Project Name: ROY BATTY FED. COM. CTB RELEASE  
 Project Number: 212C-MD-02875  
 Project Location: COP - LEA COUNTY, NM

Sampling Date: 12/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**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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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 (8'-9') (H225866-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2022	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 BTX	<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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A handwritten signature in black ink, appearing to read "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

<b>Company Name:</b> <i>Canco Offshoots</i>						<b>P.O. #:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> <i>Christy Lull</i>						<b>Company:</b> <i>T&amp;E Tech</i>					
<b>Address:</b>						<b>Attn:</b> <i>Christy Lull</i>					
<b>City:</b>						<b>Address:</b> <i>by email</i>					
<b>State:</b>						<b>City:</b>					
<b>Zip:</b>						<b>State:</b>					
<b>Phone #:</b>						<b>Zip:</b>					
<b>Fax #:</b>						<b>Phone #:</b>					
<b>Project #:</b> <i>212C-MD-02875</i>						<b>Project Owner:</b>					
<b>Project Name:</b> <i>Roy Betty Fed Con CTB Relact</i>						<b>City:</b>					
<b>Project Location:</b> <i>Lee County, NM</i>						<b>State:</b>					
<b>Sample Name:</b> <i>Colton Blakemore</i>						<b>Phone #:</b>					
<b>Fax #:</b>						<b>Zip:</b>					
<b>FOR LAB USE ONLY</b>						<b>Matrix</b>		<b>Preserv.</b>		<b>SAMPLING</b>	
<b>Lab I.D.</b>  <b>Sample I.D.</b>						<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>GROUNDWATER</b>	
						<b>WASTEWATER</b>		<b>SOIL</b>		<b>OIL</b>	
						<b>SLUDGE</b>		<b>OTHER :</b>		<b>ACID/BASE:</b>	
						<b>ICE / COOL</b>		<b>OTHER :</b>		<b>DATE</b>	
						<b>TIME</b>		<b>TPH</b>		<b>BTEX</b>	
						<b>Chlorides</b>					

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
H225866	B-1 C0-1's	G	1			X					X		12/15/12		X	X	X
	B-1 C0-3's																
	B-1 C3-4's																
	B-1 C4-5's																
	B-1 C6-7's																
	B-1 C8-9's																
	B-1 C14-15's																
	B-2 C0-1's																
	B-2 C0-3's																
	B-2 C3-4's																

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<b>Relinquished By:</b> <i>[Signature]</i>		<b>Date:</b> <i>12/15/12</i>	<b>Received By:</b> <i>[Signature]</i>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
<b>Relinquished By:</b> <i>[Signature]</i>		<b>Date:</b> <i>12/38</i>	<b>Received By:</b> <i>[Signature]</i>	<b>All Results are emailed. Please provide Email address:</b>
<b>Remarks:</b> <i>Christy Lull extracted can cooler temp Blank 1.3c</i>				

<b>Delivered By:</b> (Circle One) <b>Sampler - UPS - Bus - Other:</b>	<b>Observed Temp. °C</b> <i>13.6</i>	<b>Corrected Temp. °C</b> <i>13.0</i>	<b>Sample Condition</b> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>CHECKED BY:</b> <i>[Signature]</i>	<b>Turnaround Time:</b>	<b>Standard</b> <input checked="" type="checkbox"/> <b>Add'l Phone #:</b>	<b>Bacteria (only)</b> Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>Observed Temp. °C</b>	<b>Corrected Temp. °C</b>
--	--------------------------------------	---------------------------------------	---	---------------------------------------	-------------------------	---	--	--------------------------	---------------------------



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:

Covey Farms

Project Manager:

Christopher Hull

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #: 212-MD-02875

Project Owner:

Project Name: Roy Batty Fed. Con CTB Release

Project Location: Lea County, NM

Sample Name:

Cotton Strike

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

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

REMARKS: Christopher Hull contacted, con

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool

Intact

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID #113

Correction Factor -0.6°C

Standard

Rush

Bacteria (only)

Sample Condition

Cool

Intact

Observed Temp. °C

Corrected Temp. °C

FORM 5006 Rev. 3/07/10/22

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

## **APPENDIX D**

# **Photographic Documentation**



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

230°SW (T) LAT: 32.225018 LON: -103.541206 ±13.1ft ▲ 3609ft



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

79°E (T) LAT: 32.224964 LON: -103.541252 ±32.8ft ▲ 3608ft



Your Watermark - See Settings

Roy battery fed com swd line  
28 Sep 2022, 13:44:52

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

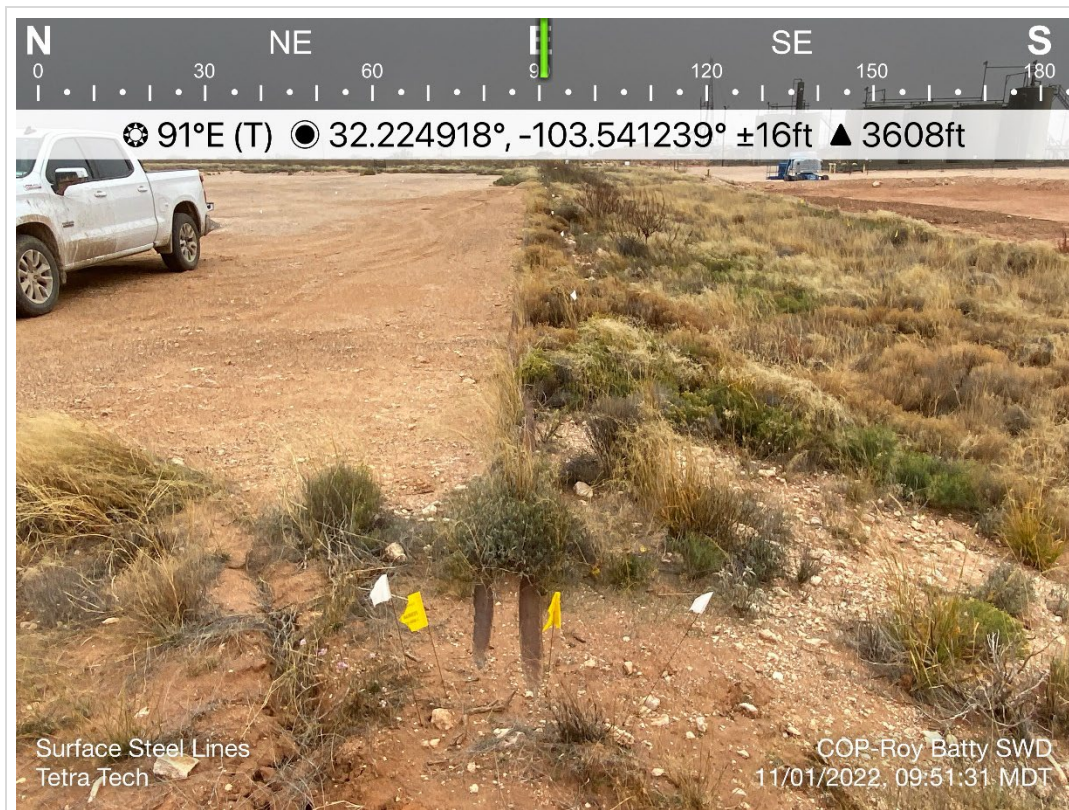
349°N (T) LAT: 32.224945 LON: -103.541206 ±13.1ft ▲ 3608ft



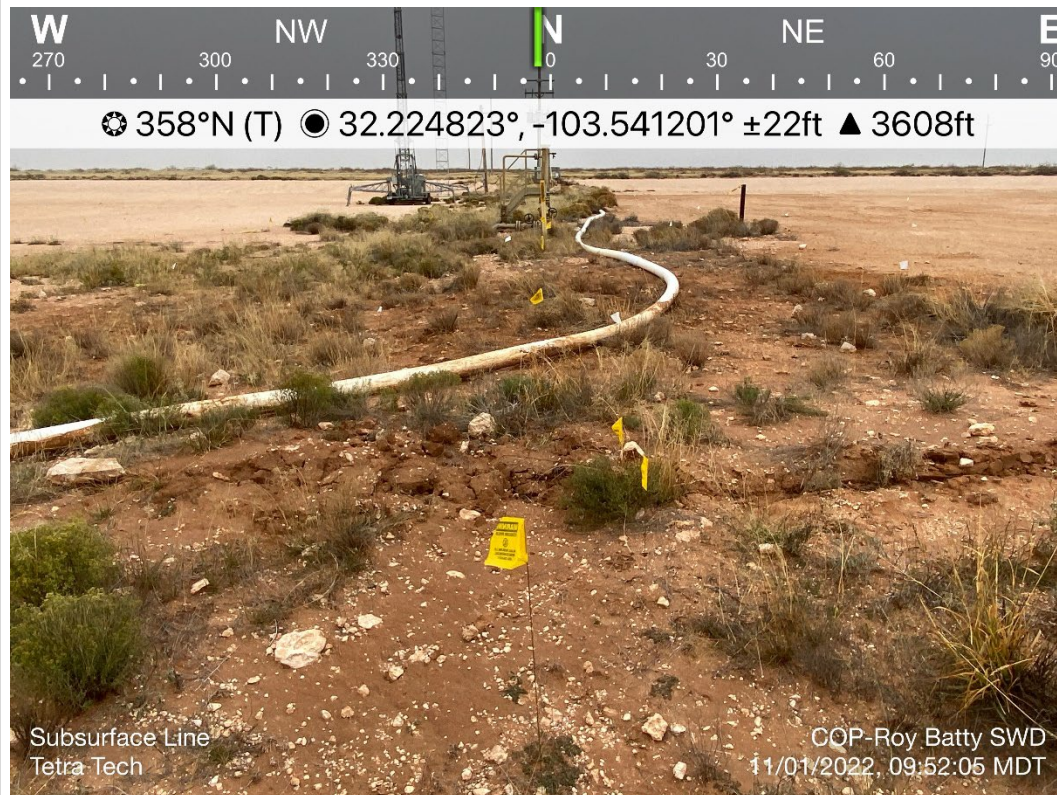
Your Watermark - See Settings

Roy battery fed com swd line  
28 Sep 2022, 13:44:27

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  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**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