



August 25, 2023

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

**Re: Closure Report
ConocoPhillips - Heritage COG Operating, LLC
Roy Batty Federal Com #003H Flange Release
Unit Letter O, Section 11, Township 24 South, Range 33 East
Lea County, New Mexico
Incident ID# NOY1811735138
1RP-5029**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COPC) to assess and evaluate a historical release that occurred from a line in the vicinity of the Roy Batty Federal Com #003H (API# 30-025-41333) lease pad. The approximate release site coordinates are 32.225991°, -103.541391°, 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 privately owned land.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on April 21, 2018. The release occurred due to a leak on a corroded flange coupler. Approximately 60 barrels (bbls) of produced water were released, of which 50 bbls were reported recovered. The NMOCD received the initial C-141 on April 27, 2018, and subsequently assigned the release the Remediation Permit (RP) number 1RP-5029 and the Incident ID NOY1811735138.

The Roy Batty Federal Com #003H Flange Release (1RP-5029/ NOY1811735138) is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022.

As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. The Delineation Workplan previously completed by BBC was included as a portion of the ACO.

SITE ASSESSMENT AND BBC WORK PLAN

According to information provided by COPC, BBC International, Incorporated (BBC) was initially contracted to map the extent and sample the release footprint and the surrounding area. Based upon the mapped initial extent provided by BBC, the release footprint was approximately 6,050 square feet of lease pad, lease road and adjacent pastureland.

Tetra Tech

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

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

On June 6 and 7, 2018, BBC installed ten (10) borings (SP1 through SP10) within the release footprint to a maximum depth of 9 feet bgs. Additionally, four (4) borings were completed (North, East, South, West) in the cardinal directions to establish horizontal delineation. A total of twenty-eight (28) samples were collected from the sample locations and transferred under chain of custody to Cardinal Laboratories (Cardinal). All soil samples were analyzed for chloride via Method SM4500Cl-B. Selected samples were analyzed for TPH via Method 8015 Modified and BTEX via Method 8021B.

Analytical results associated with SP6 through SP10 indicated chloride concentrations above reclamation requirements for surface soils outside of oil and gas production areas. There was one RRAL exceedance for chloride at SP6 (4'). All other sample results were below RRALs and reclamation requirements for surface soils outside of oil and gas production areas. BBC was able to confirm horizontal and vertical delineation with their assessment activities. Based on the results of the assessment activities, a Delineation Workplan was completed by BBC and submitted to NMOCD, on behalf of COG, via email in 2018. The same Workplan was resubmitted to NMOCD via email in January 2019.

As of November 21, 2022, the BBC Delineation Workplan had not been approved nor rejected by the NMOCD. Therefore, the workplan was resubmitted via the NMOCD Fee Application Portal. On December 2, 2022, the NMOCD rejected the BBC Delineation Workplan via email from Brittany Hall (Appendix B). The following reasoning for rejection was included in the email:

- *“The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.*
- *1RP-5029 closed. Refer to incident #nOY1811735138 in all future communications.*
- *Base and sidewalls samples will need to be representative of no more than 200 square feet and analyzed for all constituents in Table I.*
- *Please submit a complete report through the OCD Permitting website by 3/3/2023.”*

SITE CHARACTERIZATION

Based on the OCD rejection, a supplementary 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 within a New Mexico oil and gas production area.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter radius (approximately ½ mile) of the Site. There is one (1) water well within 1,600 meters (approximately 1 mile) of the Site with a depth to groundwater of 420 feet below ground surface (bgs). As the available water level information was from a well further than ½ mile away from the Site, COP reviewed adjacent incident release sites with approved reports for possibility of associated borings which could provide a means for determining depth to groundwater in the vicinity of NOY1811735138 release area. As such, subsurface data from the Tyrell Fee #1 Release (NRM2019952683) was reviewed.

On July 30, 2022, a licensed drilling subcontractor was contracted to a drill a borehole (DTW) to 55 feet bgs as part of the characterization associated with the Tyrell Fee #1 Release (Incident NRM2019952683) which was granted closure by the NMOCD. The DTW boring is located in the northeastern corner of the existing Roy Batty Federal Com #003H 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 55 feet bgs. The borehole was plugged with 3/8" bentonite chips. The borehole coordinates are 32.225714°, -103.540550°, and the boring location is indicated on Figure 3. The revised site characterization data, along with the boring log, is included in Appendix C.

LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). Tetra Tech requested BLM clearance to remediate via email. The BLM cleared the Site for remediation activities via email, following a

desktop review conducted by Shelly Taylor of the BLM. The above-mentioned email correspondence is included in Appendix B.

REGULATORY FRAMEWORK

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

Based on the site characterization, the established depth to water, 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

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

VISUAL SITE INSPECTION

On behalf of COPC, Tetra Tech personnel conducted a visual inspection of the Site on September 21, 2022 to assess current conditions and examine for evidence of the reported release. Photographic documentation from the visual inspection is included as Appendix D.

REVISED REMEDIATION WORK PLAN

Based on the analytical results from the BBC assessment activities, a REVISED Release Characterization Work Plan (Work Plan, 2022) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on December 16, 2022, with fee application payment PO Number PODVU-221216-C-1410. The Work Plan described the results of the initial response activities, release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Brittany Hall of the NMOCD on Tuesday, December 19, 2022. NMOCD email correspondence associated with the approval is presented in Appendix B.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From July 31 to August 3, 2023, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on July 26, 2023, the NMOCD district office was notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Documentation of associated regulatory correspondence is included in Appendix B.

Impacted soils were excavated as indicated in Figure 4. The eastern, off-pad portion of the release footprint was excavated to 4 feet below surrounding grade. Due to safety concerns associated with working around pressurized lines, a small portion of the release footprint, along the Lucid Energy subsurface line, was excavated to 2 feet below surrounding grade. A 4'-foot buffer zone (with colonized vegetation) was established around a pressurized fiber spar line within the release footprint. A 10-foot diameter buffer zone was established around the electrical pole in the footprint. Heavy machinery remained outside this buffer zone to avoid any disturbance to its structural integrity. Based on the site characterization included in the approved Work Plan and analytical results from the June 2018 assessment activities, there were no

exceedances of Site RRALs and/or reclamation requirements within the on-pad portion of the release footprint. Furthermore, no visible evidence of impact was observed on the lease road or the lease pad during the September 2022 visual site inspection. Thus, remedial action was limited to the off-pad pasture areas. All excavated material was transported offsite for proper disposal. Approximately 263 cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix E.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 200 square feet of excavated area. A total of eight (8) confirmation floor samples and twelve (12) confirmation sidewall samples were collected during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas and depths and confirmation sample locations are indicated in Figure 4.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the established Site RRALs and reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH and BTEX. The results of the June 2023 confirmation sampling events are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

RECLAMATION ACTIVITIES

Once confirmation sampling activities were completed and associated analytical results were below the RRALs and/or reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations, the excavated area was backfilled with clean material to surface grade. As prescribed in the approved Work Plan, the off-pad area was seeded in August 2023 to aid in revegetation. Based on the location of the Site, the BLM seed mixture for LPC Sand/Shinnery Sites was used for seeding and planted in the amount specified in the pounds pure live seed per acre. Photographic documentation of the excavated areas prior to and immediately following placement of backfill and seeding are provided in Appendix D.

Site inspections will be performed to assess the revegetation progress and evaluate the Site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the Site does not show revegetation after one growing season the area will be reseeded as appropriate.

CONCLUSION

ConocoPhillips respectfully requests closure of the release based on the confirmation sampling results and remediation and reclamation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole
Project Lead

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Ms. Shelly Taylor, BLM



Christian M. Llull, P.G.
Program Manager

LIST OF ATTACHMENTS

Figures:

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

Tables:

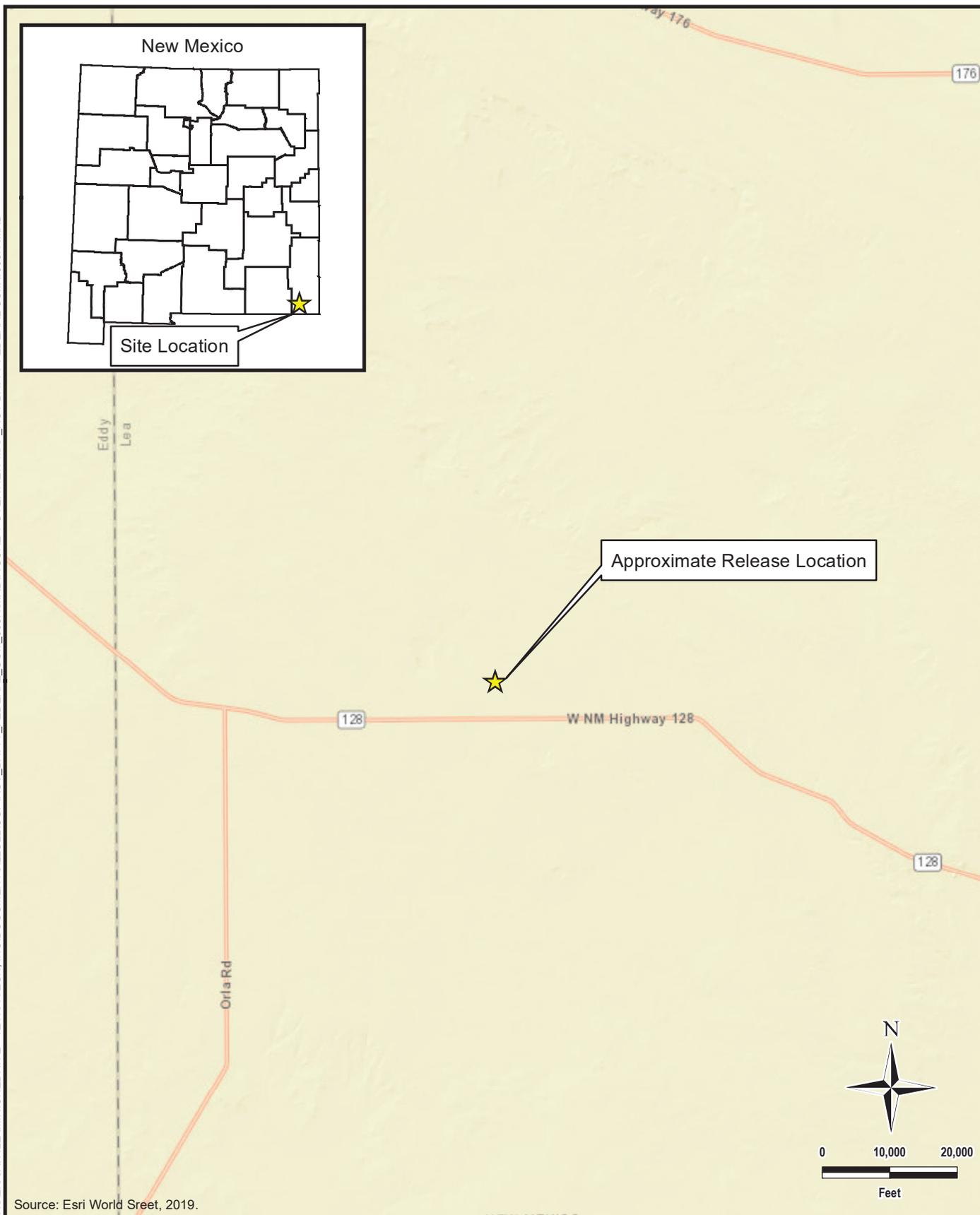
- Table 1 – Summary of Analytical Results – BBC Soil Assessment (2018)
- Table 2 – Summary of Analytical Results – Confirmation Sampling

Appendices:

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

FIGURES

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH\INC\DOCUMENTS\LISSA.VILLAMINONEDRIVE\BATTY_FEDERAL_COM_003H\MXD\FIGURE 1 OVERVIEW MAP_ROY_BATTY_FEDERAL_COM_#003H.MXD



Source: Esri World Street, 2019.



TETRA TECH

www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

NOY1811735138
(32.225647°, -103.542081°)
LEA COUNTY, NEW MEXICO

**ROY BATTY FEDERAL COM #003H FLANGE RELEASE
OVERVIEW MAP**

PROJECT NO.: 212C-MD-028487

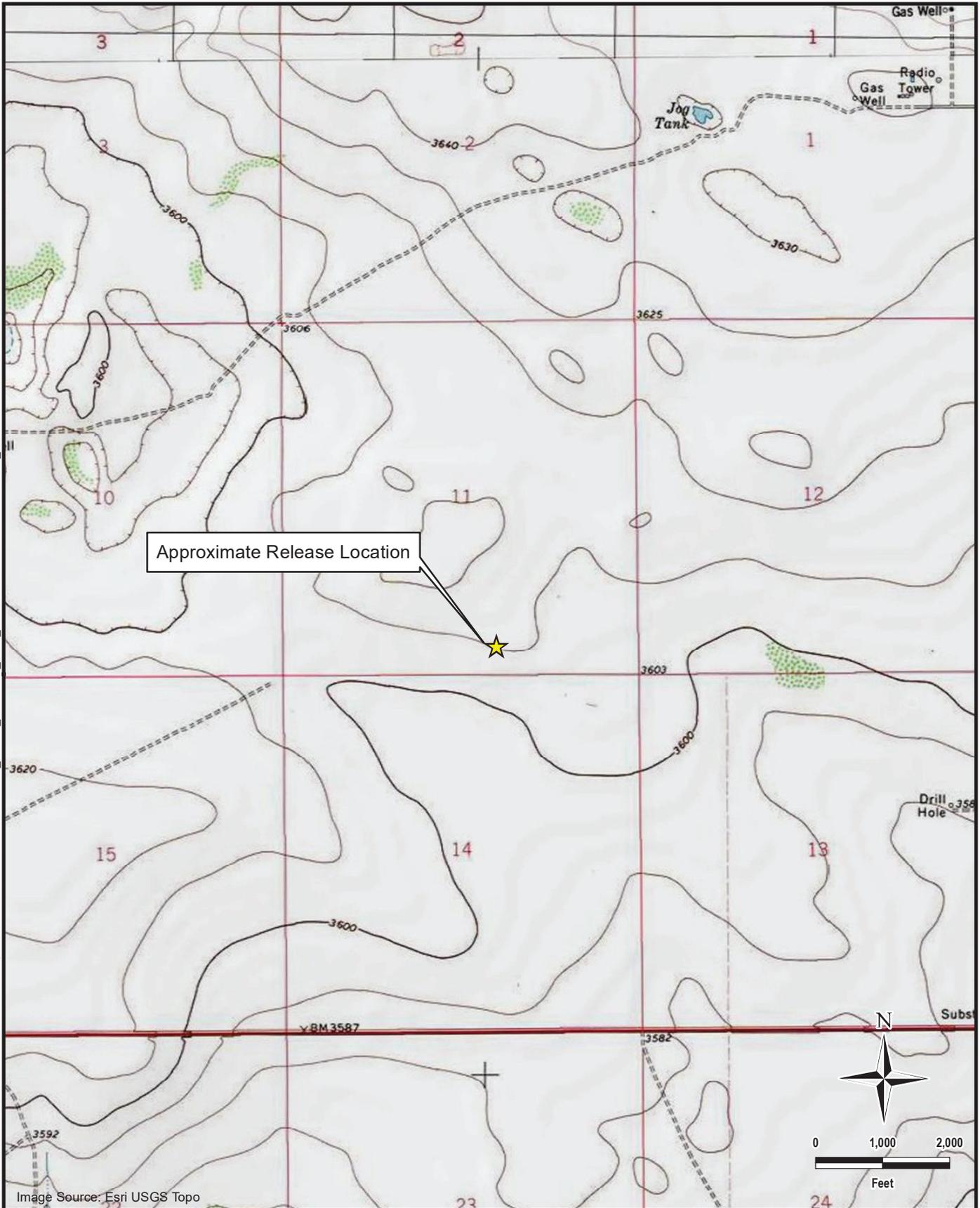
DATE: OCTOBER 05, 2022

DESIGNED BY: LMV

Figure No.

1

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINONEDRIVE - TETRA TECH, INC\DOCUMENTS\LISSA.VILLAMINONEDRIVE\ROY_BATTY_FEDERAL_COM_003H\MXD\FIGURE 2 TOPO MAP_ROY_BATTY_FEDERAL_COM_003H.MXD



Approximate Release Location

Image Source: Esri USGS Topo



TETRA TECH

www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

NOY1811735138
(32.225647°, -103.542081°)
LEA COUNTY, NEW MEXICO

**ROY BATTY FEDERAL COM #003H FLANGE RELEASE
TOPOGRAPHIC MAP**

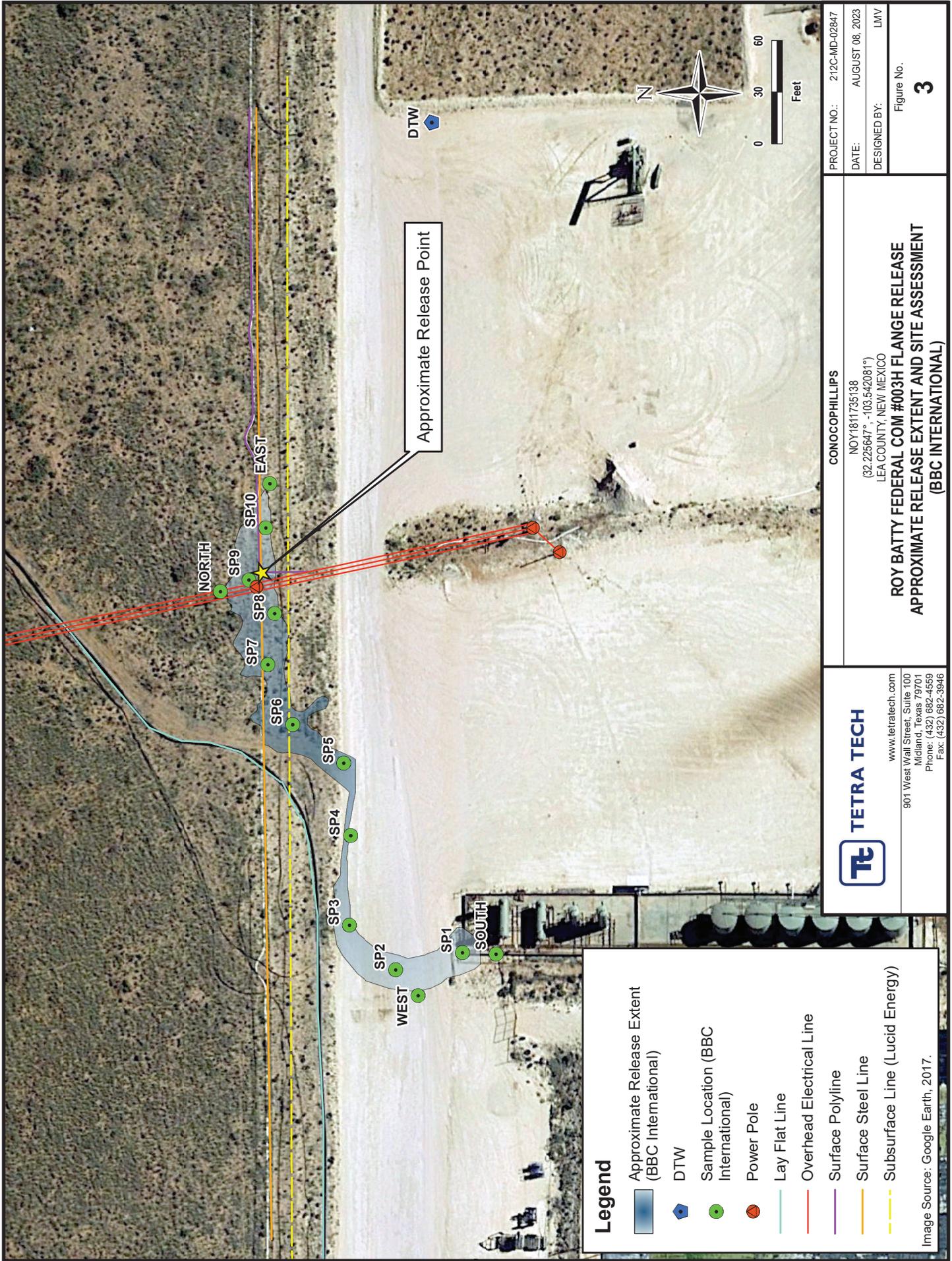
PROJECT NO.: 212C-MD-02847

DATE: OCTOBER 05, 2022

DESIGNED BY: LMV

Figure No.

2



PROJECT NO.: 212C-MD-02847
 DATE: AUGUST 08, 2023
 DESIGNED BY: LMV
 Figure No. **3**

CONOCOPHILLIPS
 NOY1811735138
 (32.225647°, -103.542081°)
 LEA COUNTY, NEW MEXICO
**ROY BATTY FEDERAL COM #003H FLANGE RELEASE
 APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT
 (BBC INTERNATIONAL)**

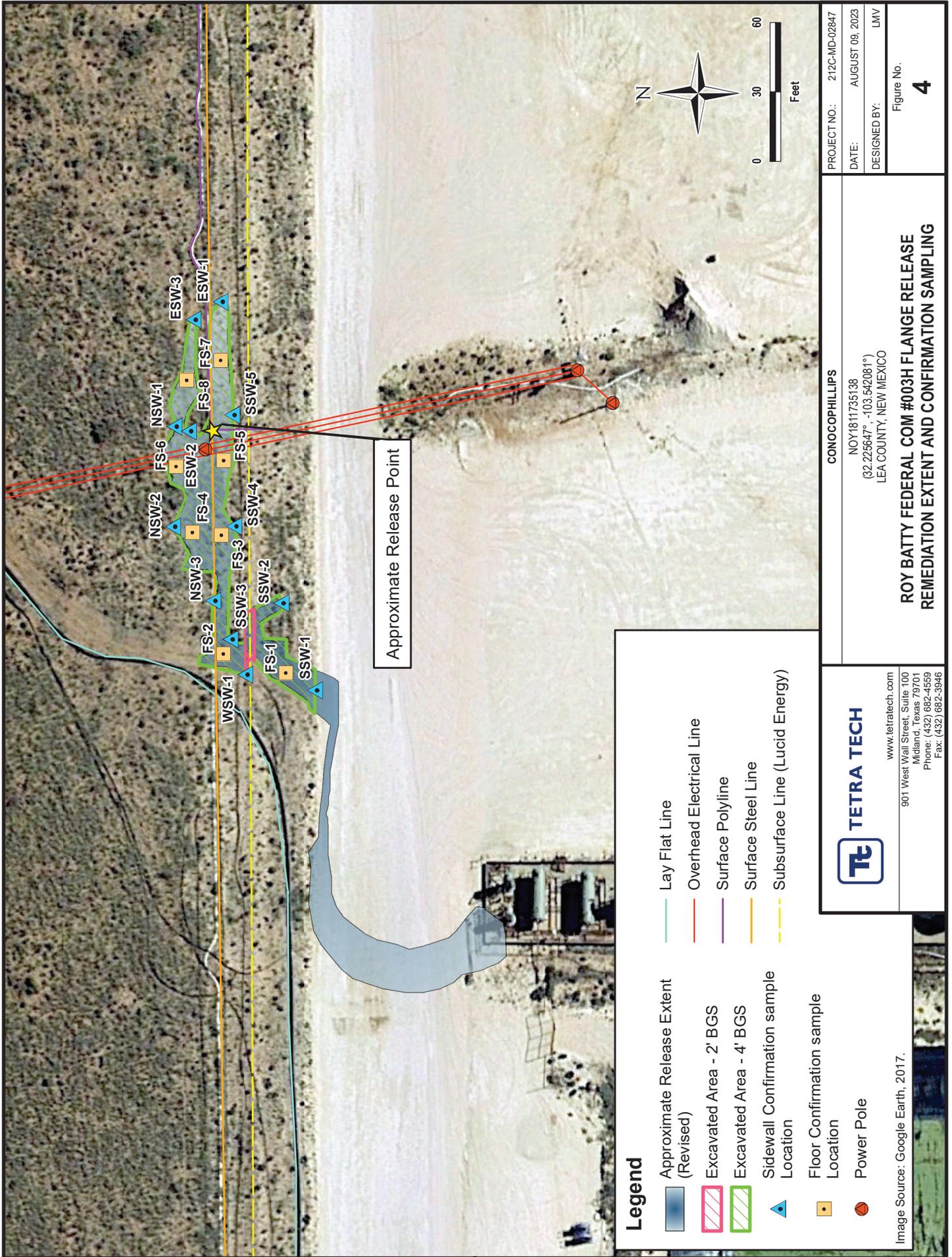
TETRA TECH
 www.tetrattech.com
 901 West Wall Street, Suite 100
 Midland, Texas 79701
 Phone: (432) 662-4559
 Fax: (432) 662-3946

Legend

- Approximate Release Extent (BBC International)
- DTW
- Sample Location (BBC International)
- Power Pole
- Lay Flat Line
- Overhead Electrical Line
- Surface Polyline
- Surface Steel Line
- Subsurface Line (Lucid Energy)

Image Source: Google Earth, 2017.

DOCUMENT PATH: C:\USERS\ISSA.VILLAMINONEDRIVE - TETRA TECH, INC\DOCUMENTS\ILLUMINONEDRIVE - TETRA TECH, INC\PROJECTS\ROY BATTY FEDERAL COM #003H\MXD\FIGURE 3 EXTENT AND ASSESSMENT (BBC).ROY BATTY 003H.MXD



TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 2018 SOIL ASSESSMENT - nOY1811735138
 CONOCOPHILLIPS
 ROY BATTY FEDERAL COM #003H RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Chloride ¹	Benzene			Toluene			Ethylbenzene			Total Xylenes			Total BTX			TPH ³							
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
SP1	6/6/2018	1	48.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		6	80.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP2	6/6/2018	1	160	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		6	112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP3	6/6/2018	1	32.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		6	32.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP4	6/6/2018	1	176	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		6	224	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP5	6/6/2018	1	624	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		2	176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP6	6/6/2018	7	256	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		1	5,600	QM-07	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
SP7	6/6/2018	4	20,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		6	6,660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP8	6/7/2018	8	1,660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		9	176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP9	6/7/2018	1	4,320	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		4	2,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SP10	6/7/2018	1	5,680	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		4	1,720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
North	6/7/2018	1	7,200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		3	9,330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
South	6/7/2018	1	7,200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	
		4	3,760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
East	6/7/2018	surface	192	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		surface	256	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
West	6/7/2018	surface	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
		surface	256	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

NOTES:
 ft. Feet
 bgs Below ground surface
 ppm Parts per million
 mg/kg Milligrams per kilogram
 NA Sample not analyzed
 TPH Total Petroleum Hydrocarbons
 GRO Gasoline range organics
 DRO Diesel range organics
 1 Method SM4500C1B
 2 Method 8021B
 3 Method 8015M

QUALIFIERS:
 QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Bold and italicized values indicate exceedance of proposed RALs and Reclamation Requirements for surface soils outside of oil and gas production areas.

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company: COG Operating, LLC (OGRID #229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-683-7443
Facility Name: Roy Batty Federal Com #003H	Facility Type: Flowline

Surface Owner: Private	Mineral Owner: Federal	API No. 30-025-41333
------------------------	------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	11	24S	33E					Lea

Latitude 32.2259 Longitude -103.5410 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 60 bbl.	Volume Recovered 50 bbl.
Source of Release Flowline Leak	Date and Hour of Occurrence April 21, 2018 9:00am	Date and Hour of Discovery April 21, 2018 9:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu – NMOCD Shelley Tucker - BLM	
By Whom? Sheldon Hitchcock	Date and Hour April 21, 2018 12:51pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By Olivia Yu at 9:36 am, Apr 27, 2018

Describe Cause of Problem and Remedial Action Taken.*

The release was due to the flange coupler on the Flex FP150 line corroding causing it to leak. Flange coupler is being replaced.

Describe Area Affected and Cleanup Action Taken.*

The release was within a pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>DeAnn Grant</i>		OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant		Approved by Environmental Specialist: <i>oy</i>	
Title: HSE Administrative Assistant	Approval Date: 4/27/2018	Expiration Date:	
E-mail Address: agrant@concho.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>	
Date: April 25, 2018 Phone: 432-253-4513	see attached directive		

* Attach Additional Sheets If Necessary

1RP-5029

nOY1811735138

pOY1811735454

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/25/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5029 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 5/27/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

From: Sheldon Hitchcock
To: [Yu, Olivia, EMNRD; stucker@blm.gov](#)
Cc: [Robert McNeill](#); [Rebecca Haskell](#); [Dakota Neel](#); [Christopher Gray](#); [DeAnn Grant](#)
Subject: (Notification) Roy Batty Federal Com #003H
Date: Saturday, April 21, 2018 12:51:06 PM

Ms. Yu/Ms. Tucker,

COG Operating LLC (OGRID# 239137) is reporting a release from a flowline adjacent to the Roy Batty Federal #003.

Release Location:

ULSTR: O-11-24S-33E

Lat/Long: 32.2254181,-103.5406799

Release Volume: >25bbbls

Recovery Volume: Ongoing

COG will have the release evaluated and will submit an Initial C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

Sheldon Hitchcock
HSE Coordinator

Sent from my iPhone

NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Further, any contract terms proposed or purportedly accepted in this email are not binding and are subject to management's final approval as memorialized in a separate written instrument, excluding electronic correspondence, executed by an authorized representative of COG Operating LLC or its affiliates.

Incident ID	NOY1811735138
District RP	1RP-5029
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?	>55 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NOY1811735138
District RP	1RP-5029
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: Ike Tavarez Title: Program Manager, Remediation

Signature:  Date: 12/14/22

email: ike.tavarez@conocophillips.com Telephone: 432-685-2573

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

Incident ID	NOY1811735138
District RP	1RP-5029
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Ike Tavaréz Title: Program Manager, Remediation
 Signature:  Date: 12/14/22
 email: ike.tavaréz@conocophillips.com Telephone: 432-685-2573

OCD Only

Received by: Jocelyn Harimon Date: 12/16/2022

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 12/19/2022

Incident ID	NOY1811735138
District RP	1RP-5029
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Ike Tavarez Title: Program Manager, Remediation

Signature:  Date: 8/25/23

email: ike.tavarez@conocophillips.com Telephone: 432-685-2573

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 8/28/2023

Printed Name: Brittany Hall Title: Environmental Specialist

APPENDIX B

Regulatory Correspondence

Dickerson, Ryan

From: Llull, Christian
Sent: Thursday, December 8, 2022 3:18 PM
To: Dickerson, Ryan
Subject: Fwd: The Oil Conservation Division (OCD) has rejected the application, Application ID: 160531

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

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nOY1811735138, for the following reasons:

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**
- **1RP-5029 closed. Refer to incident #nOY1811735138 in all future communications.**
- **Base and sidewalls samples will need to be representative of no more than 200 square feet and analyzed for all constituents in Table I.**
- **Please submit a complete report through the OCD Permitting website by 3/3/2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 160531.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

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

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, December 19, 2022 9:24 AM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 167824

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

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nOY1811735138, with the following conditions:

- **None**

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

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

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

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

Poole, Nicholas

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, July 26, 2023 12:49 PM
To: Poole, Nicholas
Cc: Bratcher, Michael, EMNRD; Hall, Brittany, EMNRD
Subject: FW: [EXTERNAL] Incident ID: nOY1811735138,- Confirmation Sampling

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

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

Hi Nicholas,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Wednesday, July 26, 2023 10:25 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Incident ID: nOY1811735138,- Confirmation Sampling

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

Incident ID (n#) **nOY1811735138** (Roy Batty Federal Com #003H)

To whom it may concern,

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

Remediation activities of the release will begin Monday, July 31, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site **Tuesday, August 1, 2023.**

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

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

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

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.



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



Poole, Nicholas

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Thursday, August 3, 2023 3:31 PM
To: Llull, Christian
Cc: Poole, Nicholas
Subject: Re: [EXTERNAL] Request for Approval - Remediation (Roy Batty Federal Com #003H Flange)

You don't often get email from sjtaylor@blm.gov. [Learn why this is important](#)

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

You are cleared to proceed.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

PLEASE NOTE: I have a new email address: sjtaylor@blm.gov



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Thursday, August 3, 2023 9:43 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Subject: [EXTERNAL] Request for Approval - Remediation (Roy Batty Federal Com #003H Flange)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Shelly,

The Roy Batty Federal Com #003H Flange Release is just off pad on BLM land.

Numerous pipelines within the footprint and electric overhead.

See attached kmz.

Site in Lea County, NM.

Roy Batty Federal Com #003H Flange Release

Lea County, NM

INCIDENT ID nOY1811735138

Approximate Release Point 32.225991°, -103.541391°

Off-pad in Pasture Flowline

BLM Land

Are we cleared to proceed?

Christian Llull, P.G. | Program Manager

Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetrattech.com

Tetra Tech | *Leading with Science*® | OGA

8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.



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

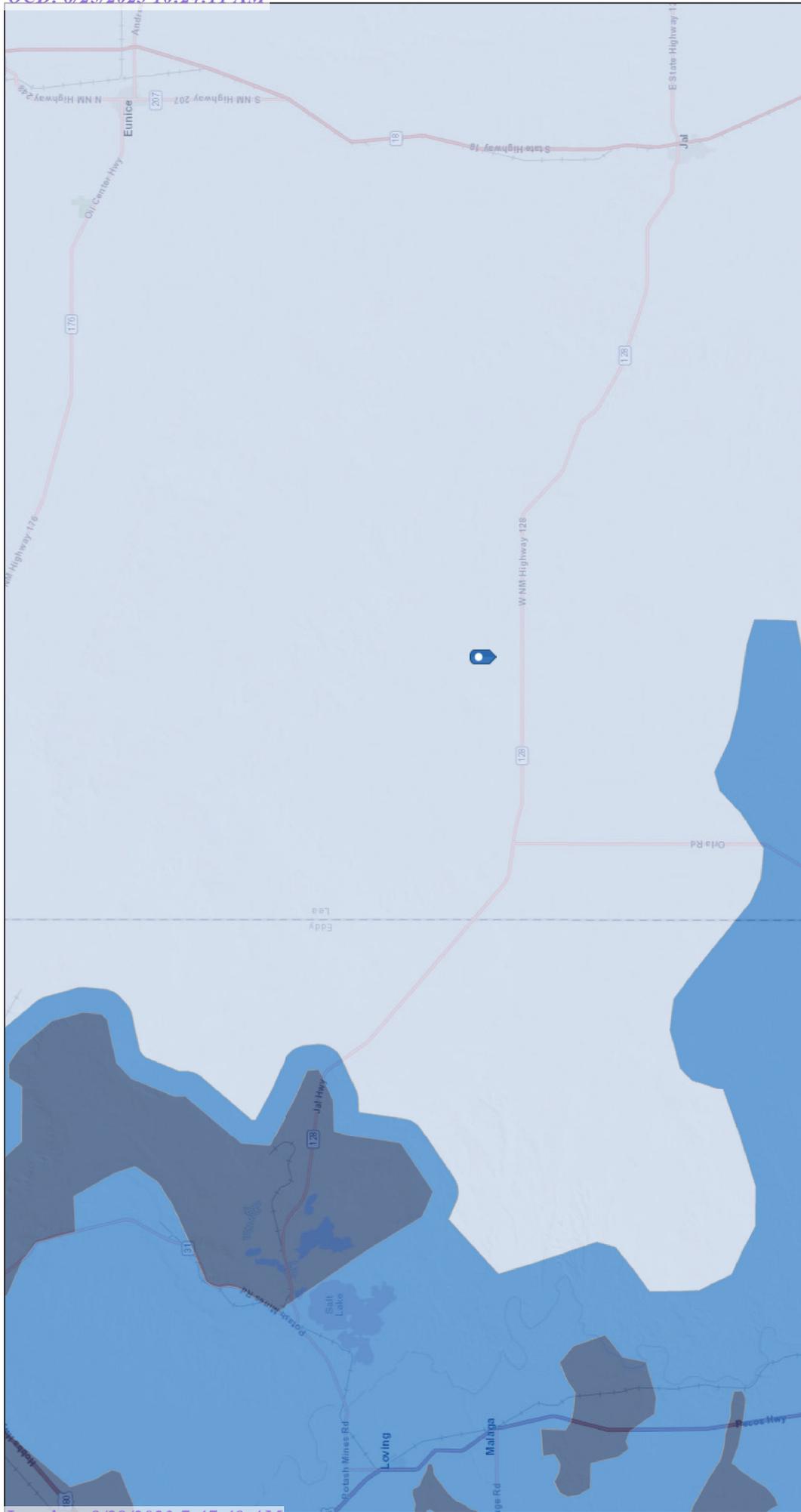


TETRA TECH

APPENDIX C

Site Characterization Data

OCD Karst Potential Map



9/20/2022, 9:22:58 AM

Karst Occurrence Potential

- High
- Medium
- Low

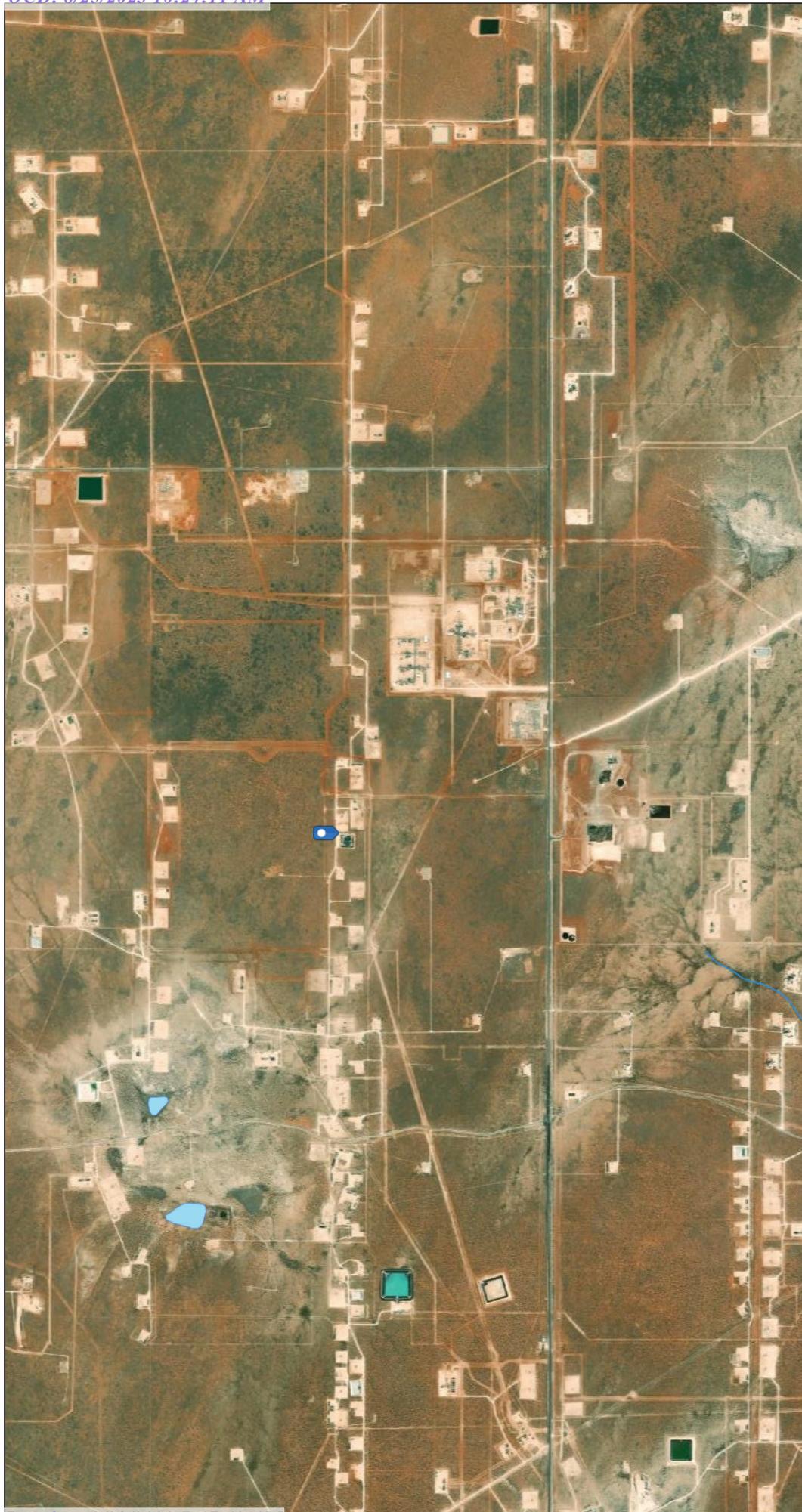
1:288,895



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

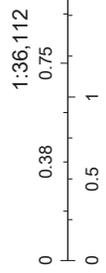
New Mexico Oil and Gas Map. <http://nm-emrtd.maps.arcgis.com/apps/webappviewer/index.html?id=401772306164de29f2b91855ca75>; New Mexico Oil Conservation Division

OCD Waterbodies Map



9/20/2022, 9:21:57 AM

- OSW Water Bodies
- OSE Streams



Esri, HERE, Garmin, Maxar, NM OSE

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: 7/30/2022 Date Finished: 7/30/2022

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>∇</u> DRY ft Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION			
5														1	
											-- CALICHE: Pale brown to tan, fine- to coarse-grained, hard, dry (Caliche Pad) -SM- SILTY SAND: Light brown, fine- to medium-grained, dense to very dense, dry, with Caliche nodules			14	
											-SM- CALICHE: Light brown to tan, fine- to medium-grained, hard, dry, weakly to moderately cemented			23	
											-SP- SAND: Light brown to brown, fine- to medium-grained, dense, dry, with occasional silt pockets			47	
											-- SHALE: Red, hard, dry			55	

Bottom of borehole at 55.0 feet.

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

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03917 POD1	C	LE		4	1	3	13	24S	33E	638374	3565212	1535	600	420	180
C 03662 POD1	C	LE		3	1	2	23	24S	33E	637342	3564428	1951	550	110	440
C 04339 POD6	CUB	LE		3	1	2	23	24S	33E	637340	3564386	1992	60		

Average Depth to Water: **265 feet**
 Minimum Depth: **110 feet**
 Maximum Depth: **420 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 637376.36

Northing (Y): 3566379.56

Radius: 2000

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

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	Site signage and location information; Roy Batty Federal Com CTB.	1
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View south-southwest. Separators at the southern extent of the reported release footprint.	2
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View southeast. View from the lease road towards the lease pad.	3
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View west. View from lease road, looking towards the west. Assumed flow path, no visible evidence of impact.	4
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View southwest. Approximate release point in the pasture north of the pad, sparse vegetation present.	5
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View southwest. Sparse vegetation east of the approximate release point.	6
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



Surface Lines
Tetra Tech

COP-Roy Batty Fed
09/21/2022 08:30:56 MDT

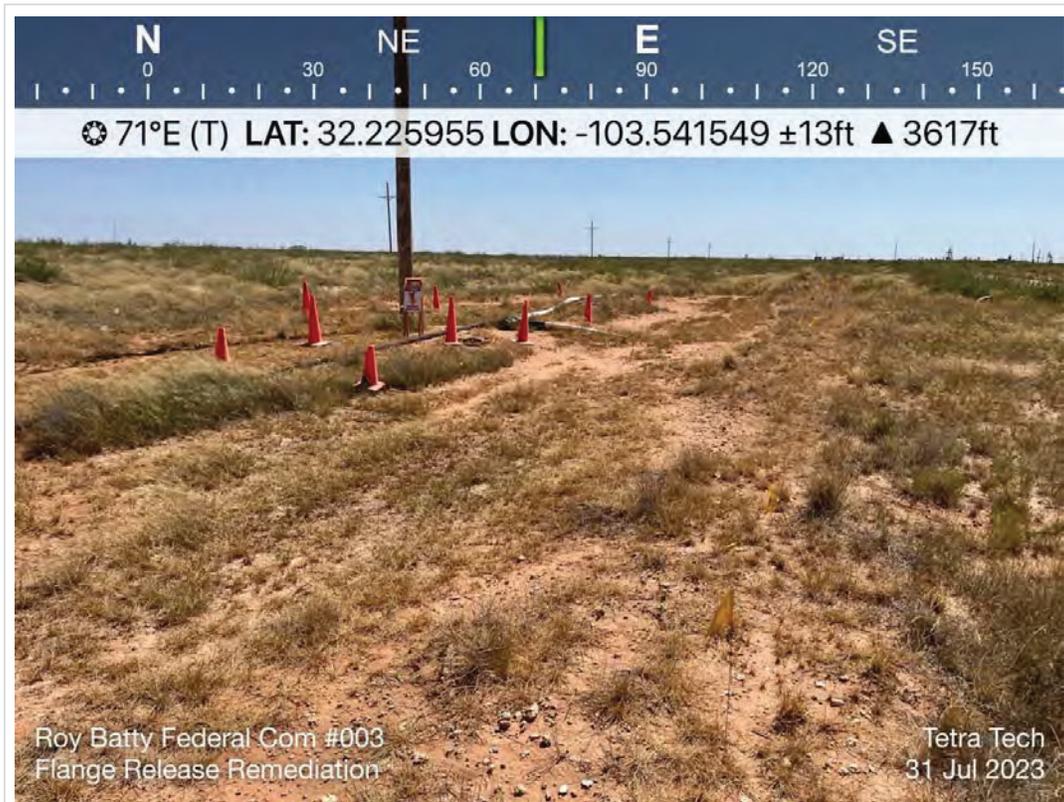
TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View southwest. No visible evidence of impact.	7
	SITE NAME	ConocoPhillips Roy Batty Fed Com #003H	9/21/2022



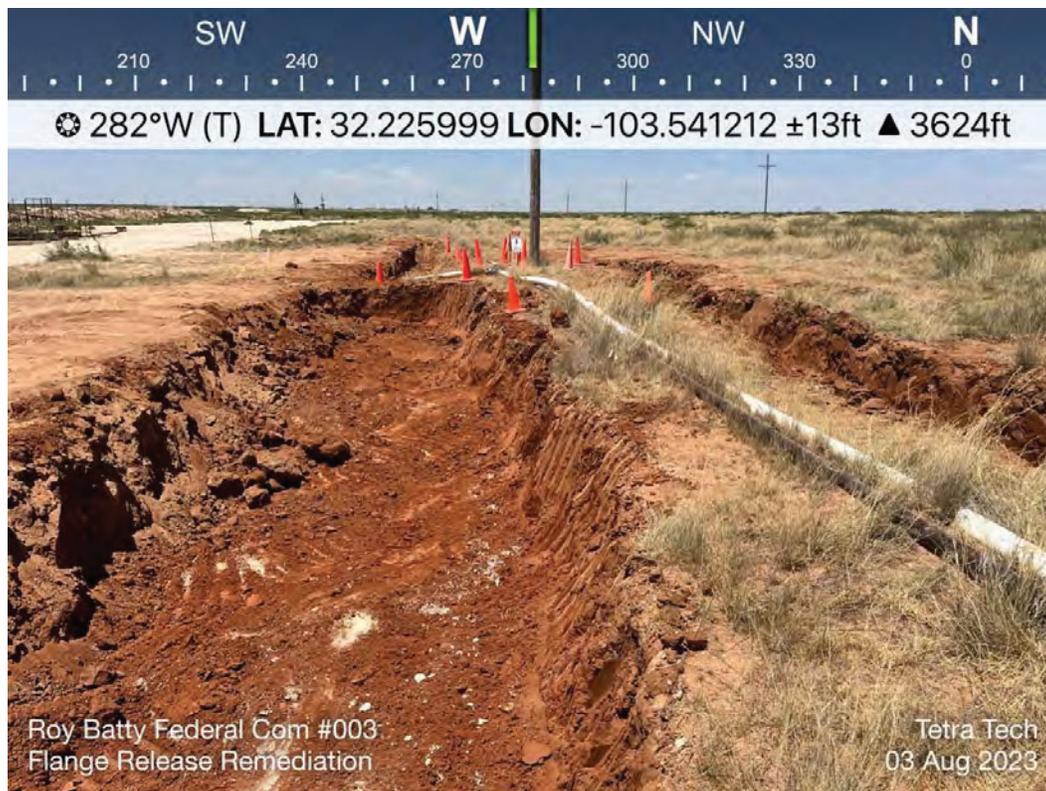
Roy Batty Federal Com #003
Flange Release Remediation

Tetra Tech
31 Jul 2023

TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View west. Proposed remediation area prior to beginning excavations. The area along surface lines was noted as being vegetated.	8
	SITE NAME	Roy Batty Federal Com #003H Flange Release	7/31/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View east-northeast. Proposed remediation area prior to beginning excavations. The area along surface lines was noted as being vegetated.	9
	SITE NAME	Roy Batty Federal Com #003H Flange Release	7/31/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View west. Eastern portion of the 4-foot excavated area.	10
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View east. Central portion of the 4-foot excavated area. Power pole exclusion zone.	11
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View west-southwest. Southwestern portion of the 4-foot excavated area.	12
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View northeast. Southwestern portion of the 4-foot excavated area.	13
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View east. Backfilled and seeded excavation area.	14
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View west. Backfilled and seeded excavation area.	15
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02847	DESCRIPTION	View south. Backfilled and seeded excavation area.	16
	SITE NAME	Roy Batty Federal Com #003H Flange Release	8/4/2023

APPENDIX E

Waste Manifests



Customer Copy

WEIGHT TICKET

Ticket # 185735

Start:08/02/2023 09:41 AM

End:08/02/2023 09:47 AM

By:cwl.adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil	18	18	\$0.01	\$0.18

Hauler: McNabb Partners
 Driver: Michael Luinos
 Lease: Roy Batt State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Ray Garza
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Dump Truck
 UOM: CuYd
 UOM Count: 18
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS

C1	C0	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	C0	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	C0	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	C0	01	\$0.00	\$0.00
----	----	----	--------	--------

22			\$0.01	\$0.18
----	--	--	--------	--------

SUBTOTAL ----> \$0.18

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.19

Customer: ConocoPhillips Company

Driver: Karen Work

ID/License:



Customer Copy

WEIGHT TICKET

Ticket # 185754

Start:08/02/2023 10:38 AM

End:08/02/2023 10:44 AM

By:owl.amy

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
	CO	14	\$0.01	\$0.14
Hauler: [unclear] Partners				
Driver: Michael Quinones				
Lease: Andrew Garcia				
Well: 003H				
AFE #: N/A				
County, State: LEA (NM)				
API #: N/A				
Manifest #: 02				
Client Company Man: Andrew Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
UDM: Durd				
UDM Count: 14				
FF Test Result: Pass				
H2S Test: Pass				
Company approved lease and well. no API				
H2S Testing - PASS				
	C1	CO	01	\$0.00
				\$0.00
Paint Filter - PASS				
	C1	CO	01	\$0.00
				\$0.00
NORM - PASS				
	C1	CO	01	\$0.00
				\$0.00
Additional Photos				
	C1	CO	01	\$0.00
				\$0.00
				\$0.14
				SUBTOTAL ----> \$0.14
				TAX ----> \$0.01
				ROUNDING ----> \$-0.00
				TOTAL ----> \$0.15

Customer: ConocoPhillips Company
Driver: Karen Work
ID/Licence:



Customer Copy

WEIGHT TICKET

Ticket # 185766
Start: 08/02/2023 11:29 AM
End: 08/02/2023 11:48 AM
By: cwl.adan

GROSS	TARE	NET	PRICE	AMOUNT
-------	------	-----	-------	--------

Contaminated Soil				
14	CO	14	\$0.01	\$0.14

Hauler: McNabb Partners
 Driver: Michael Cuinones
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Men: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Dump Truck M37
 UOM: CuYd
 UOM Count: 14
 PF Test Result: Pass
 H2S Test: Pass
 Company man Approved lease and well with no API.

H2S Testing - PASS				
01	CO	01	\$0.00	\$0.00

Paint Filter - PASS				
01	CO	01	\$0.00	\$0.00

NORM - PASS				
01	CO	01	\$0.00	\$0.00

Additional Photos				
01	CO	01	\$0.00	\$0.00

18			\$0.01	\$0.14
----	--	--	--------	--------

SUBTOTAL ----> \$0.14
 TAX ----> \$0.01
 ROUNDING ----> \$-0.00
 TOTAL ----> \$0.15

Customer: ConocoPhillips Company
 Driver: Karan Work
 ID/Licence:



Customer Copy

-----WEIGHT TICKET-----

Ticket # 185776

Start:08/02/2023 12:31 PM

End:08/02/2023 12:35 PM

By:owl.amy

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	00	14	\$0.01	\$0.14
Hauler: McNabb Partners				
Driver: Roy Batty State				
Lease: COOH				
Well: N/A				
County, State: LEA (NM)				
API #: N/A				
Manifest #: 04				
Client Company Man: Andrew Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Dump Truck				
UOM: CuYd				
UOM Count: 14				
PF Test Result: Pass				
H2S Test: Pass				
H2S Testing - PASS				
01	00	01	\$0.00	\$0.00
Paint Filter - PASS				
01	00	01	\$0.00	\$0.00
NORM - PASS				
01	00	01	\$0.00	\$0.00
Additional Photos				
01	00	01	\$0.00	\$0.00
18			\$0.01	\$0.14
SUBTOTAL ---->				\$0.14
TAX ---->				\$0.01
ROUNDING ---->				\$-0.00
TOTAL ---->				\$0.15

Customer: ConocoPhillips Company
Driver: Karan Work
ID/Licence:



Customer Copy

WEIGHT TICKET

Ticket # 185791

Start:08/02/2023 01:27 PM

End:08/02/2023 01:33 PM

By:cwl,adan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	00	14	\$0.01	\$0.14

Hauler: McNabb Partners

Driver: Michael Guinos

Lease: Roy Batty State

Well: OC3H

AFE #: N/A

County, State: LEA (NM)

API #: N/A

Client Company Man: Andrew Garcia

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

UOM: CuYd

UOM Count: 14

PF Test Result: Pass

H2S Test: Pass

Company man approved lease and well without API

H2S Testing - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

18			\$0.01	\$0.14
----	--	--	--------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work

ID/Licence:



Customer Copy

WEIGHT TICKET

Ticket # 185809

Start: 08/02/2023 02:23 PM

End: 08/02/2023 02:28 PM

By: owl.amy

GROSS	TARE	NET	PRICE	AMOUNT
14	CO	14	10.01	\$0.14

Contaminated Soil

Hauler: McNabb Partners
Driver: Michael Guinones
Lease: Roy Batty
Well: OC3H

AFE #: N/A
County, State: LEA (NM)
API #: N/A
Manifest #: 06

Client Company Man: Andrew Garcia
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: Dump Truck

UOM: Cuyd
UOM Count: 14
PF Test Result: Pass
H2S Test: Pass

Company man approved with lease and well only.

H2S Testing - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

18			\$0.01	\$0.14
----	--	--	--------	--------

SUBTOTAL	---->	\$0.14
TAX	---->	\$0.01
ROUNDING	---->	\$-0.00
TOTAL	---->	\$0.15

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:



Customer Copy

-----WEIGHT TICKET-----

Ticket # 185824

Start:08/02/2023 03:15 PM

End:08/02/2023 03:28 PM

By:owl.amy

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	00	14	\$0.01	\$0.14

Hauler: McNabb Partners

Driver: Michael Guinones

Lease: Roy Batty State

Well: 003H

AFE #: N/A

County, State: LEA (NM)

API #: N/A

Manifest #: 07

Client Company Man: Andrew Garcia

Rig Name & Number: N/A

Trucking Co Ticket #: N/A

Truck Type: Dump Truck

UOM: CuYd

UOM Count: 14

PF Test Result: Pass

H2S Test: Pass

Company man approved Lease and well without API

H2S Testing - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

18			\$0.01	\$0.14
----	--	--	--------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company

Driver: Karen Work

ID/License:



Customer Copy

WEIGHT TICKET

Ticket # 185832

Start:08/02/2023 04:14 PM

End:08/02/2023 04:22 PM

By:owl.adar

GROSS	TARE	NET	PRICE	AMOUNT
14	00	14	\$0.01	\$0.14

Contaminated Soil

Hauler: McNabb Partners
 Driver: Michael Cuinones
 Lease: Roy Batty State
 Well: OC3H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Dump Truck M37
 UOM: Cuyd
 UOM Count: 14
 PF Test Result: Pass
 H2S Test: Pass
 Company man approved lease and well with no API.

H2S Testing - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

18			\$0.01	\$0.14
----	--	--	--------	--------

SUBTOTAL ----> \$0.14

TAX ----> \$0.01

ROUNDING ----> \$-0.00

TOTAL ----> \$0.15

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/Licence:



Customer Copy

WEIGHT TICKET

Ticket # 185950

Start: 08/03/2023 10:03 AM

End: 08/03/2023 10:05 AM

By: CWL.Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
19	00	19	\$0.01	\$0.19

Hauler: McNabb Partners
 Driver: Victor Manzano
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Belly Dumps
 UOM: Cuyd
 UOM Count: 19
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

23			\$0.01	\$0.19
----	--	--	--------	--------

SUBTOTAL ----> \$0.19

TAX ----> \$0.01

ROUNDING ----> \$0.00

TOTAL ----> \$0.20

Customer: ConocoPhillips Company

Driver: Karen Work

ID/Licence:



Customer Copy

WEIGHT TICKET

Ticket # 185848

Start: 08/03/2023 09:58 AM

End: 08/03/2023 10:01 AM

By: OWL, Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	CO	14	\$0.01	\$0.14

Hauler: McNabb Partners
 Driver: Michael Cuñones
 Lease: Roy Batty State
 Well: OC3H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Dump Truck
 UOM: CuYd
 UOM Count: 14
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	CO	01	\$0.00	\$0.00
----	----	----	--------	--------

18			\$0.01	\$0.14
----	--	--	--------	--------

GRAND TOTAL ----> \$0.14
 TAX ----> \$0.01
 ROUNDING ----> \$-0.00
 TOTAL ----> \$0.15

Phillips Company

Phillips Energy Services

Phillips



Customer Copy

---WEIGHT TICKET---

Ticket # 185968

Start:08/03/2023 11:00 AM

End:08/03/2023 11:11 AM

By:DWL.Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	00	14	10.01	\$0.14

Hauler: McNabb Partners
 Driver: Michael Guinones
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Dump Truck
 UOM: CuYd
 UOM Count: 14
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS				
01	00	01	10.00	\$0.00

Paint Filter - PASS				
01	00	01	10.00	\$0.00

NORM - PASS				
01	00	01	10.00	\$0.00

Additional Photos				
01	00	01	10.00	\$0.00

18			10.01	\$0.14
----	--	--	-------	--------

SUBTOTAL ---> \$0.14
 TAX ---> \$0.01
 ROUNDING ---> \$-0.00
 TOTAL ---> \$0.15

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/License:



Customer Copy

WEIGHT TICKET

Ticket # 186023

Start: 08/03/2023 01:40 PM

End: 08/03/2023 01:46 PM

By: owl.gina

GROSS	TARE	NET	PRICE	AMOUNT
18	00	18	\$0.01	\$0.18

Contaminated Soil

Hauler: McNabb Partners
 Driver: Victor Manzano
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Manifest #: 13
 Client Company Man: Ray garza
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Belly Dumps
 UOM: QYrd
 UOM Count: 18
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Paint Filter - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

NORM - PASS

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

Additional Photos

C1	00	01	\$0.00	\$0.00
----	----	----	--------	--------

22			\$0.01	\$0.18
----	--	--	--------	--------

SUB-TOTAL ----> \$0.18
 TAX ----> \$0.01
 ROUNDING ----> \$0.00
 TOTAL ----> \$0.19

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/Licence:



WEIGHT TICKET
Ticket # 186001
Start: 08/03/2023 12:33 PM
End: 08/03/2023 12:45 PM
By: OWL Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	CO	18	\$0.01	\$0.18
Hauler: McNabb Partners				
Driver: Victor Manzano				
Lease: Roy Batty State				
Well: DC3H				
AFE #: N/A				
County, State: LEA (NM)				
API #: N/A				
Client Company Man: Andrew Garcia				
Rig Name & Number: N/A				
Trucking Co Ticket #: N/A				
Truck Type: Belly Dumps				
UOM: Cuyd				
UOM Count: 18				
PF Test Result: Pass				
H2S Test: Pass				

H2S Testing - PASS				
C1	CO	01	\$0.00	\$0.00

Paint Filter - PASS				
C1	CO	01	\$0.00	\$0.00

NORM - PASS				
C1	CO	01	\$0.00	\$0.00

Additional Photos				
C1	CO	01	\$0.00	\$0.00

22 \$0.01 \$0.18

SUB-TOTAL ----> \$0.18
TAX ----> \$0.01
ROUNDING ----> \$0.00
TOTAL ----> \$0.19

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

powered by TrueCloudERP.com



Customer Copy

WEIGHT TICKET

Ticket # 185976

Start:08/03/2023 11:14 AM

End:08/03/2023 11:25 AM

By:Owl.Ivan

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
18	00	18	\$0.01	\$0.18

Hauler: McNabb Partners
 Driver: Victor Menzano
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 Manifest #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Belly Dumps
 UOM: Dwyd
 UOM Count: 18
 PF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS				
01	00	01	\$0.00	\$0.00

Paint Filter - PASS				
01	00	01	\$0.00	\$0.00

NORM - PASS				
01	00	01	\$0.00	\$0.00

Additional Photos				
01	00	01	\$0.00	\$0.00

22			\$0.01	\$0.18
----	--	--	--------	--------

SUBTOTAL ---> \$0.18
 TAX ---> \$0.01
 ROUNDING ---> \$0.00
 TOTAL ---> \$0.19

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/License:



Customer Copy

WEIGHT TICKET
Ticket # 186067
Start: 08/03/2023 04:19 PM
End: 08/03/2023 04:22 PM
By: GWL, Ivan

GROSS	TARE	NET	PRICE	AMOUNT
18	00	18	\$0.01	\$0.18

Contaminated Soil
 Hauler: McNabb Partners
 Driver: Victor Manzano
 Lease: Roy Batty State
 Well: 003H
 AFE #: N/A
 County, State: LEA (NM)
 API #: N/A
 Client Company Man: Andrew Garcia
 Rig Name & Number: N/A
 Trucking Co Ticket #: N/A
 Truck Type: Belly Dumps
 UOM: Cuyd
 UOM Count: 18
 FF Test Result: Pass
 H2S Test: Pass

H2S Testing - PASS				
C1	00	01	\$0.00	\$0.00

Paint Filter - PASS				
C1	00	01	\$0.00	\$0.00

NORM - PASS				
C1	00	01	\$0.00	\$0.00

Additional Photos				
C1	00	01	\$0.00	\$0.00

22			\$0.01	\$0.18
----	--	--	--------	--------

SUBTOTAL ---> \$0.18
 TAX ---> \$0.01
 ROUNDING ---> \$0.00
 TOTAL ---> \$0.19

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/Licence:



WEIGHT TICKET

Ticket # 185999
 Start: 08/03/2023 12:29 PM
 End: 08/03/2023 12:44 PM
 By: owl.gina

GROSS	TARE	NET	PRICE	AMOUNT
Contaminated Soil				
14	CO	14	\$0.01	\$0.14
Hauler: McNabb Partners Driver: Michael Guinanes Lease: Roy Batty State Well: OC3H AFE #: N/A County, State: LEA (NM) API #: N/A Manifest #: 17 Client Company Man: Ray Garza Rig Name & Number: N/A Trucking Co Ticket #: N/A Truck Type: Belly Dumps UOM: Cuyd UOM Count: 14 PF Test Result: Pass H2S Test: Pass				
H2S Testing - PASS				
C1	CO	01	\$0.00	\$0.00
Paint Filter - PASS				
C1	CO	01	\$0.00	\$0.00
NORM - PASS				
C1	CO	01	\$0.00	\$0.00
Additional Photos				
C1	CO	01	\$0.00	\$0.00
18			\$0.01	\$0.14
SUE TOTAL --->				\$0.14
TAX --->				\$0.01
ROUNDING --->				\$-0.00
TOTAL --->				\$0.15

Customer: ConocoPhillips Company
 Driver: Karen Work
 ID/License:

powered by TrueCloudERP.com

APPENDIX F

Laboratory Analytical Data



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

August 01, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RAY BATTY FEDERAL COM #003H

Enclosed are the results of analyses for samples received by the laboratory on 07/31/23 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 1 (H234023-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 2 (H234023-02)

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	07/31/2023	ND	2.02	101	2.00	0.846		
Toluene*	<0.050	0.050	07/31/2023	ND	1.94	96.8	2.00	1.59		
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	1.99	99.6	2.00	1.93		
Total Xylenes*	<0.150	0.150	07/31/2023	ND	5.87	97.8	6.00	0.995		
Total BTEX	<0.300	0.300	07/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	205	103	200	2.90		
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	216	108	200	4.87		
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND						

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: NSW - 3 (H234023-03)

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	08/01/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	08/01/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 1 (H234023-04)

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	08/01/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	08/01/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 2 (H234023-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.02	101	2.00	0.846	
Toluene*	<0.050	0.050	08/01/2023	ND	1.94	96.8	2.00	1.59	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	1.93	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.87	97.8	6.00	0.995	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	51.5	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	31.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: ESW - 3 (H234023-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57		
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69		

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	08/01/2023	ND	205	103	200	2.90		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 1 (H234023-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57	
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 2 (H234023-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57		
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/01/2023	ND	400	100	400	7.69		

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	08/01/2023	ND	205	103	200	2.90		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 3 (H234023-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57	
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 4 (H234023-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57	
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: SSW - 5 (H234023-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57		
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2023	ND	400	100	400	7.69		

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	08/01/2023	ND	205	103	200	2.90		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2023	Sampling Date:	07/31/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	RAY BATTY FEDERAL COM #003H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02847	Sample Received By:	Jodi Henson
Project Location:	COP - LEA CO NM		

Sample ID: WSW - 1 (H234023-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.18	109	2.00	2.57	
Toluene*	<0.050	0.050	08/01/2023	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.4	2.00	3.46	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.99	99.8	6.00	2.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2023	ND	400	100	400	7.69	

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	08/01/2023	ND	205	103	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	216	108	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

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

Page 1 of 2

Company Name: Carroll Phillips Project Manager: Christian Llum Address: City: State: Zip: Phone #: Fax #: Project #: 212C-MD-02847 Project Owner: Project Name: Ray Betty Federal Con B03H Project Location: Los Co, NM Sampler Name: Andrew Garcia		BILL TO P.O. #: Company: Feta Tech Attn: Christian Llum Address: City: State: Zip: Phone #: Fax #: Project #:	
Lab I.D. A234D23 Sample I.D.		MATRIX (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS GROUNDWATER WASTEWATER SOIL <input checked="" type="checkbox"/> OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. 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.		PRESERV SAMPLING DATE 2023 TIME 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30 13:00 13:30	
Relinquished By: [Signature] Date: 31 July 23 Time: 16:30		Received By: [Signature] Date: 31 July 23 Time: 16:30	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 3.4 Corrected Temp. °C Sample Condition Cool/Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: [Signature]	
Turnaround Time: Standard Thermometer ID #140 Correction Factor 0°C Bacteria (only) Sample Condition Cool/Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C		REMARKS: Nicholas. Poole c feta Tech. can Christian. Llum @ Feta Tech. can	



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

August 02, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ROY BATTY FEDERAL COM #003

Enclosed are the results of analyses for samples received by the laboratory on 08/01/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 1 (H234059-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66	
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 2 (H234059-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66		
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05		
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356		
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 3 (H234059-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66		
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05		
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356		
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND						

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 4 (H234059-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66		
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05		
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356		
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 5 (H234059-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66		
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05		
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356		
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 6 (H234059-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66	
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 7 (H234059-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66	
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83	
Total BTEX	<0.300	0.300	08/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	ROY BATTY FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: FS - 8 (H234059-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.21	110	2.00	3.66		
Toluene*	<0.050	0.050	08/01/2023	ND	2.13	106	2.00	4.15		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	4.59		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.20	103	6.00	3.83		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/02/2023	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	08/02/2023	ND	182	91.2	200	6.05		
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	196	98.2	200	0.356		
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

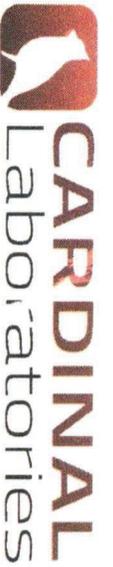
Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

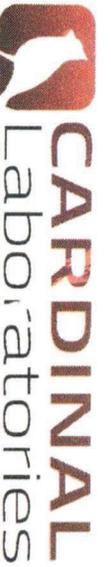


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco Phillips Project Manager: Erin Stenhouse		BILL TO P.O. #: _____ Company: Fetra Tech Attn: Christian Lulu Address: _____ City: _____ State: _____ Zip: _____ Project # _____ Project Owner: _____ Project Name: Ray Batty Federal Can #003 Project Location: Leo County NM Sampler Name: Andrew Garcia Project # _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: _____ ICE / COOL OTHER: _____	
Lab I.D. H234059 Sample I.D. 1 FS-1 2 FS-2 3 FS-3 4 FS-4 5 FS-5 6 FS-6 7 FS-7 8 FS-8		PRESERV DATE 2023 08/01 SAMPLING TIME 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30	
Relinquished By: Andrew Garcia Date: 01 Aug 23 Time: 11:30		Received By: Christian Lulu Date: _____ Time: _____	
Delivered By: (Circle One) UPS - Bus - Other: _____ Corrected Temp. °C _____		Observed Temp. °C 41 Corrected Temp. °C _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: AL (Initials)	
Remarks: Christian Lulu @ Fetra Tech.com Ni Cholas, Poole & Fetra Tech.com		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	

† Cardinal cannot accept verbal changes. Please email changes to cely.keeene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco Phillips Project Manager: Christen Lulu		BILL TO P.O. #: _____ Company: Fetra Tech Attn: Christen Lulu	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project #: _____ Project Name: Ray Batty Federal Can #003 Project Location: Leo County NM		Project Owner: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Sampler Name: Andrew Garcia		Project Name: _____ Project Location: _____ Project Owner: _____	
FOR LAB USE ONLY			
Lab I.D. H234059	Sample I.D.	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____	PRESERV ACID/BASE: ICE / COOL OTHER: _____
1 FS-1 2 FS-2 3 FS-3 4 FS-4 5 FS-5 6 FS-6 7 FS-7 8 FS-8	(G)RAB OR (C)OMP. # CONTAINERS DATE: 2023 08/01	TIME 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30	ANALYSIS REQUEST TPH BTEX Chloride 4500

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.

Relinquished By: **Andrew Garcia** Date: **01 Aug 23** Time: **11:30**
 Received By: **Christen Lulu** Date: **08/01** Time: **12:30**

Delivered By: (Circle One) **UPS** Observed Temp. °C **41** Corrected Temp. °C _____
 Sampler - UPS - Bus - Other: _____ Corrected Temp. °C _____

Sample Condition: Intact Cool Yes No

Checked By: **AP** (Initials)

Turnaround Time: **Standard** **Rush**
 Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #140 Correction Factor 0°C **g/hes** Observed Temp. °C _____ Corrected Temp. °C _____

REMARKS: **Christian Lulu @ Fetra Tech.com**
Ni Cholas, Poole & Fetra Tech.com

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

FORM 0007-3-4 07/11/23

† Cardinal cannot accept verbal changes. Please email changes to cely.keeene@cardinallabsnm.com

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 257774

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 257774
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	8/28/2023