

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name _____ Title: _____ Signature: <u>Patricia Espinoza</u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

Spill Calculation - Subsurface Spill - Rectangle

Remediation Recommendation

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	20.0	20.0	2.0	Off-Pad v	15.02%	11.87	1.78	3.09	750
Rectangle B				v		0.00	0.00		
Rectangle C				v		0.00	0.00		
Rectangle D				v		0.00	0.00		
Rectangle E				v		0.00	0.00		
Rectangle F				v		0.00	0.00		
Rectangle G				v		0.00	0.00		
Rectangle H				v		0.00	0.00		
Rectangle I				v		0.00	0.00		
Rectangle J				v		0.00	0.00		
Total Subsurface Volume Released:							1.7824	3.09	BU



August 6, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Reclamation Closure Report
ConocoPhillips
Cuatro Hijos Fee #004H Flowline Release
Unit Letter A, Section 02, Township 19 South, Range 34 East
DOR: 4/23/2023
Lea County, New Mexico
Incident ID: nAPP2312933596**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a release that occurred from a flowline associated with the Cuatro Hijos Fee #004H (API #30-025-41752). The release footprint is located within Public Land Survey System (PLSS) Unit Letter A, Section 02, Township 19 South, Range 34 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.693649°, -103.522686°, as shown on Figures 1 and 2.

BACKGROUND

According to the C-141 Initial Report, the release occurred on April 23, 2023. Approximately 1.78 barrels (bbls) of produced water were released from a hole in a flowline due to corrosion. The spill calculator provided with the C-141 indicates a release extent of approximately 400 square feet of pasture, as presented in Figure 3. The New Mexico Oil Conservation Division (NMOCD) approved the initial C-141 on May 9, 2023, and assigned the release the Incident ID Incident ID nAPP2312933596.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on State Trust Lands. A review of the NMSLO Land Status Map was completed and the Site is located within active oil and gas lease VB12840001, which is listed under Concho Oil & Gas LLC/COG Operations LLC. Based on guidance provided by the NMSLO, as the release footprint is located on an active oil and gas lease, and the footprint is wholly located within the boundaries of the active oil and gas lease, no Remediation Right of Entry (ROE) is required at the Site.

REMEDIATION CLOSURE REPORT

Tetra Tech conducted release assessment activities on behalf of ConocoPhillips in June and August 2023 to delineate the release and guide the remedial actions taken at the Site within 90 days of discovery of the release. The sampling locations are presented in Figure 3. The analytical results from the 2023 assessment activities are summarized in Table 1. All analytical results were below applicable Site RRALs. However, samples collected from the upper 4 feet at trench locations T-1 and T-2 were above reclamation requirements and required remedial action. Vertical delineation was obtained at T-1 as the analytical results associated with the sample collected at 4-5 feet bgs were below the Site RRALs. Horizontal and vertical delineation were successfully completed as a result of the assessment activities.

On behalf of ConocoPhillips, Tetra Tech requested a 90-day extension on July 19, 2023, to complete assessment, remediation, and the associated reporting for the release site. The extension request was

Reclamation Closure Report
August 6, 2024

ConocoPhillips

approved by Nelson Velez on July 20, 2023, and the remediation due date was updated to October 20, 2023, within the incident page. A copy of the regulatory correspondence is included in Appendix A.

A Release Characterization and Remediation Closure Report (Remediation Closure Report) dated September 8, 2023, was prepared by Tetra Tech on behalf of ConocoPhillips following completion of the remedial activities. The Remediation Closure Report provided the Site Characterization in accordance with 19.15.29.11 NMAC and described the remedial activities performed at the Site in accordance with 19.15.29.12 NMAC. Based on the collected analytical results, Tetra Tech excavated the release extent to a total depth of 4 feet bgs to remove impacted soils. Approximately fifty-two (52) cubic yards of material were removed during the remedial activities.

The Remediation Closure Report was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to the NMOCD on September 19, 2023. The remediation Closure Report was approved by the NMOCD on December 18, 2024. The Closure Report provided details regarding the reclamation; however, the incident status is listed as *Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator*. A copy of the regulatory correspondence is included in Appendix A.

As this incident occurred on State Trust Lands, a copy of the remediation Closure Report was submitted to the NMSLO for review.

2023 RECLAMATION ACTIVITIES

In accordance with 19.15.29.13 NMAC, all areas disturbed by the remediation have been reclaimed. 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 SM4500CI-B. The analytical results were directly compared to the reclamation requirements and established Site RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the reclamation limits for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 4. The results of the August 2023 confirmation sampling events are summarized in Table 2.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas were seeded to aid in revegetation. Based on the soils at the Site, the NMSLO Loamy (L) Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

2024 SITE INSPECTION AND RECLAMATION ACTIVITIES

Tetra Tech personnel conducted a visual Site inspection on July 9, 2024, to assess the revegetation progress and evaluate current site conditions. During the Site inspection activities, Tetra Tech personnel collected one (1) representative 5-point composite sample from the remediated area. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by SM4500CI-B. Soil backfill composite sampling results are summarized in Table 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B.

Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation in the next growing season, the area will be reseeded as appropriate. Reclamation activities have been implemented in consultation with the NMSLO. Photographic documentation of the Site remediation and reclamation activities are presented in Appendix C.

Reclamation Closure Report
August 6, 2024

ConocoPhillips

CONCLUSION

Based on the results of the reclamation activities and confirmation sampling, ConocoPhillips respectfully requests approval of the reclamation associated with this incident. A final re-vegetation report will be submitted when uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds. If you have any questions concerning the reclamation activities performed at the Site, please call me at (512) 739-7874.

Sincerely,

Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



Samantha K. Abbott, P.G.
Senior Project Manager

cc:
Mr. Jacob Laird, GPBU – ConocoPhillips

Reclamation Closure Report
August 6, 2024

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

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

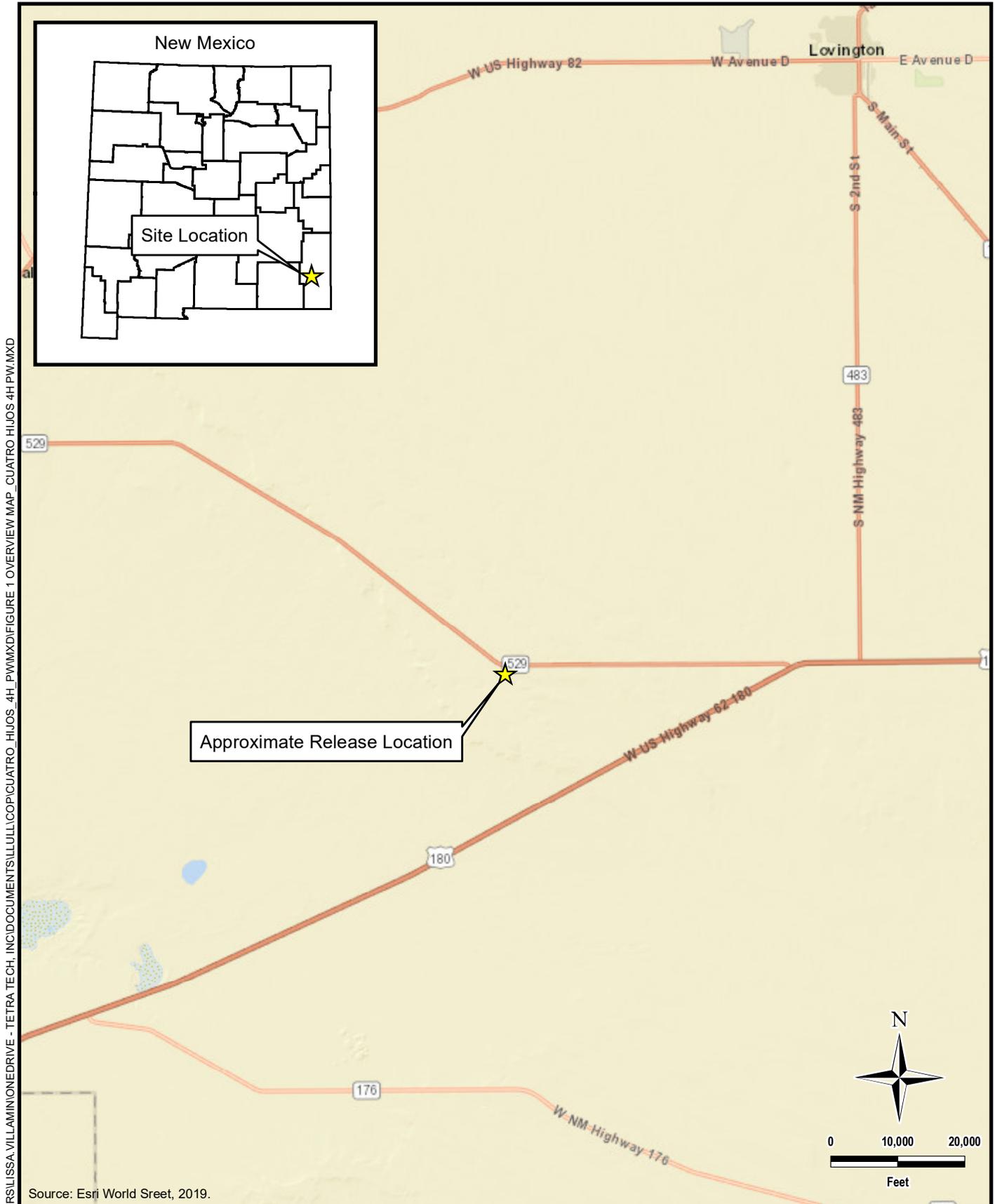
Tables:

- Table 1 – Summary of Analytical Results – 2023 Soil Assessment
- Table 2 – Summary of Analytical Results – Soil Remediation
- Table 3 – Summary of Analytical Results – Soil Backfill

Appendices:

- Appendix A – Regulatory Correspondence
- Appendix B – Laboratory Analytical Data
- Appendix C – Photographic Documentation

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPICUATRO_HIJOS_4H_PW\FLOWLINE RELEASE\OVERVIEW MAP_CUATRO_HIJOS_4H_PW.MXD

Source: Esri World Street, 2019.



TETRA TECH

www.tetratech.com

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

CONOCOPHILLIPS

NAPP2312933596
LEA COUNTY, NEW MEXICO
(32.693649° -103.522686°)

**CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE
OVERVIEW MAP**

PROJECT NO.: 212C-MD-03154

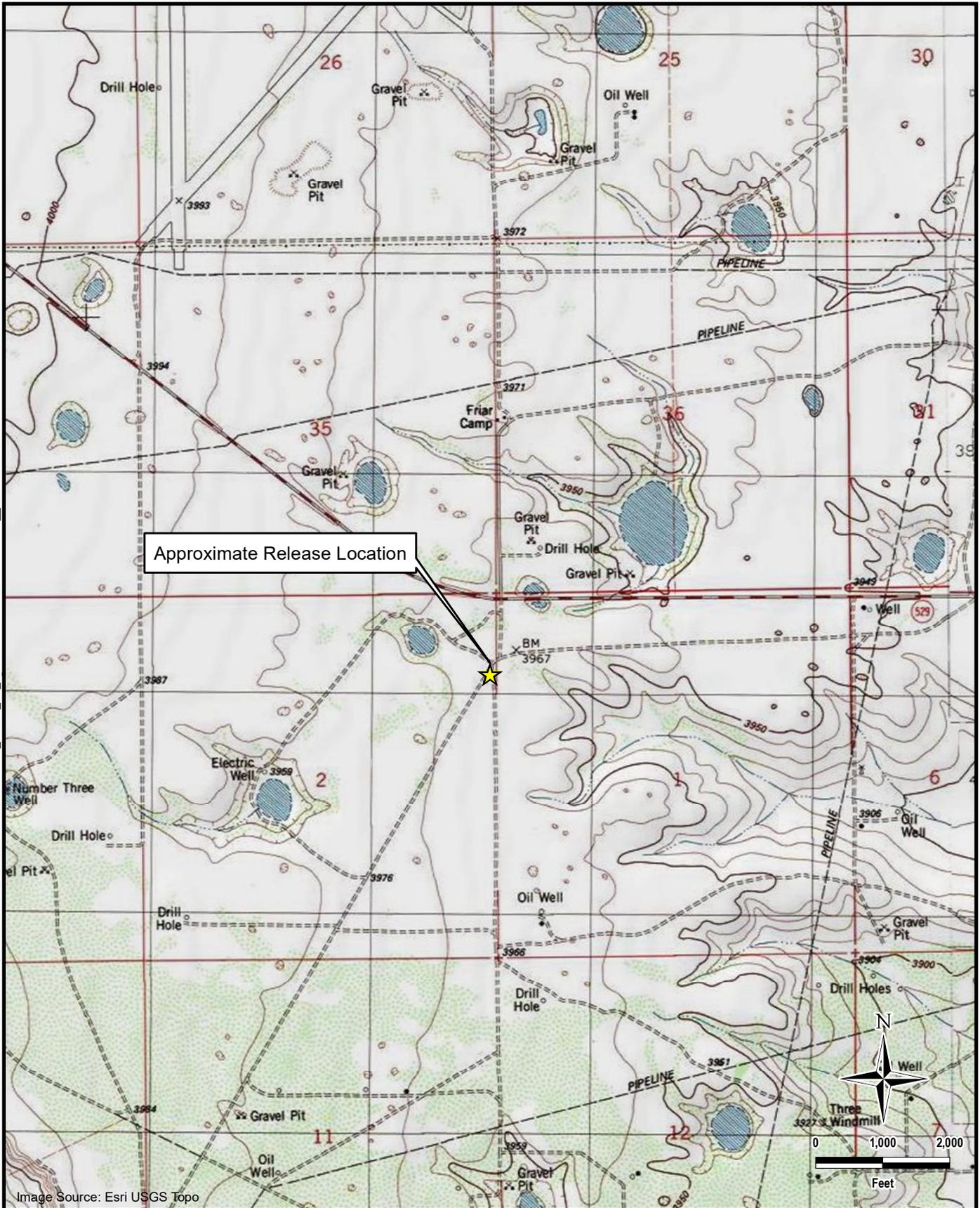
DATE: AUGUST 01, 2023

DESIGNED BY: LMV

Figure No.

1

DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPICUATRO_HIJOS_4H_PW\MXD CUATRO HIJOS 4H PW.MXD



Approximate Release Location



TETRA TECH

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CONOCOPHILLIPS

NAPP2312933596
LEA COUNTY, NEW MEXICO
(32.693649° -103.522686°)

**CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03154

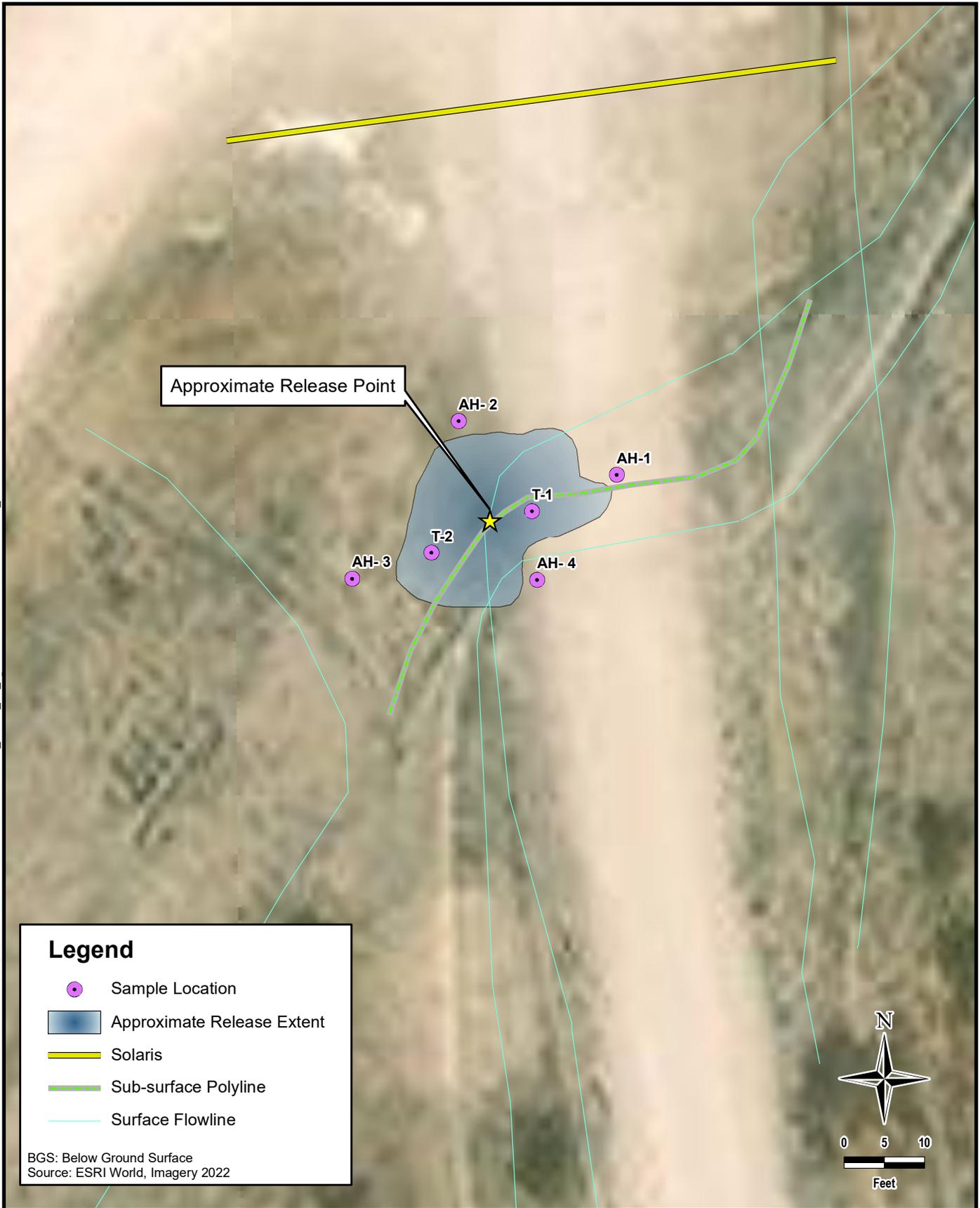
DATE: AUGUST 01, 2023

DESIGNED BY: LMV

Figure No.

2

DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH\INCIDENTS\ILLULLI\COPICUATRO_HIJOS_4H_PWMXD\Figure 3 SITE ASSESS_CUATRO HIJOS 4H PW.MXD



Legend

- Sample Location
- Approximate Release Extent
- Solaris
- Sub-surface Polyline
- Surface Flowline

BGS: Below Ground Surface
Source: ESRI World, Imagery 2022

Tt TETRA TECH

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LEA COUNTY, NEW MEXICO
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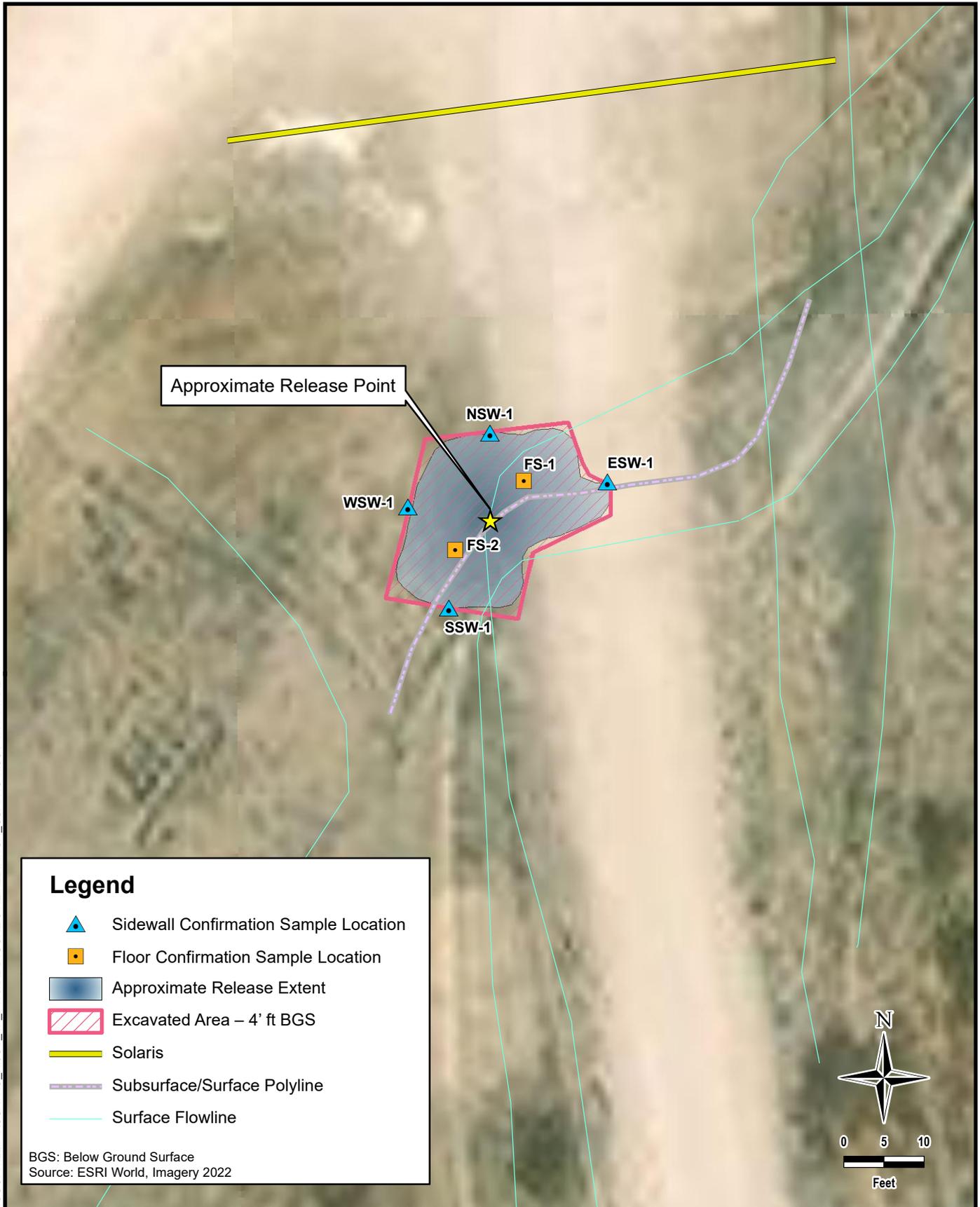
**CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE
SITE ASSESSMENT**

PROJECT NO.: 212C-MD-03154

DATE: AUGUST 03, 2023

DESIGNED BY: LMV

Figure No.
3



DOCUMENT PATH: Y:\CONOCOPHILLIPS\CUATRO_HIJOS_4H_PW\MXD\FIGURE 5 REMEDIATION_CUATRO HIJOS 4H PW.MXD

Legend

- Sidewall Confirmation Sample Location
- Floor Confirmation Sample Location
- Approximate Release Extent
- Excavated Area – 4' ft BGS
- Solaris
- Subsurface/Surface Polyline
- Surface Flowline

BGS: Below Ground Surface
Source: ESRI World, Imagery 2022



<p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NAPP2312933596 LEA COUNTY, NEW MEXICO (32.693649° -103.522686°)</p>	<p>PROJECT NO.: 212C-MD-03154</p>
	<p>CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE REMEDATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS</p>	<p>DATE: AUGUST 29, 2023</p> <p>DESIGNED BY: LMV</p>
		<p>Figure No. 4</p>

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT- nAPP2312933596
 CONOCOPHILLIPS
 CUATRO HIJOS FEE 4H FLOWLINE RELEASE
 LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (>100 ft):				Chlorides ¹		BTEX ²										TPH ³							
				20,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg	
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride		Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		Total TPH (GRO+DRO+EXT DRO)
			Chlorides	PID	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
AH-1	6/29/2023	0-1	112		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		20.0		20.0
AH-2	6/29/2023	0-1	69.5		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		15.4		15.4
AH-3	6/29/2023	0-1	70.3		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
AH-4	6/29/2023	0-1	83.6		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
T-1	6/29/2023	0-1	OL		16,100		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-
		2-3	6,580		5,730		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-
		3-4	1,870		1,280		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,300		1,360		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-
		5-6	200		80.0		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-
T-2	6/29/2023	0-1	11,170		12,200		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		<10.0		<10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

OL Over Limit

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 SOIL REMEDIATION - NAPP2312933596
 CONOCOPHILLIPS
 CUATRO HIJOS FEE 4H FLOWLINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride		BTEX ²								TPH ³								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
NSW-1	8/15/2023	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SSW-1	8/15/2023	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
ESW-1	8/15/2023	-	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
WSW-1	8/15/2023	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-1	8/15/2023	4	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
FS-2	8/15/2023	4	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

TABLE 3
 SUMMARY OF ANALYTICAL RESULTS
 2024 SOIL BACKFILL - nAPP2312933596
 CONOCOPHILLIPS
 CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE
 LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³						
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
BACKFILL - COMPOSITE	7/9/2024	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

APPENDIX A

Regulatory Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Abbott, Sam](#)
Cc: [Jacob.Laird@conocophillips.com](#); [Llull, Christian](#); [Chavira, Lisbeth](#); [Bratcher, Michael, EMNRD](#)
Subject: Extension Request - Incident ID NAPP2312933596
Date: Thursday, July 20, 2023 10:11:17 AM
Attachments: [Outlook-rbpn3vaf.png](#)

Some people who received this message don't often get email from nelson.velez@emnrd.nm.gov. [Learn why this is important](#)

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

Good morning Samantha,

90-day time extension request is approved. Remediation Due date has been updated to 10/20/2023 within the incident page.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



Previous email submitted;

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Wednesday, July 19, 2023 3:06 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laird, Jacob <Jacob.Laird@conocophillips.com>; Llull, Christian <Christian.Llull@tetrattech.com>;

Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>

Subject: [EXTERNAL] Extension Request - Incident ID NAPP2312933596

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

To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until October 20, 2023) to complete remediation activities and associated reporting for the Cuatro Hijos Fee #004H site (**NAPP2312933596**).

The release occurred on April 23, 2023. The initial C-141 for this release was received by NMOCD on 5/9/2023. ConocoPhillips immediately commenced pursuing a 90-day (July 22, 2023) release characterization and closure per 19.15.29.11(A) NMAC.

The release footprint is located on State Trust lands. As of December 1, 2022 New Mexico State Land Office's Cultural Properties Protection (CPP) Rule is in effect. In tandem with this CPP rule, the NMSLO has begun enforcing application and permitting requirements per Rule 12 (19.2.12 NMAC) for Water/Soil Boring Exploration Permits. Any intrusive activities (i.e. # soil borings to be drilled, sampling to be conducted, etc.) must be permitted through the Water Bureau, Oil, Gas, and Minerals Division, New Mexico State Land Office.

Tetra Tech and ConocoPhillips experienced a delay in scheduling assessment at the Cuatro Hijos Fee #004H Release site while in the process of complying with these rules. The allocation of resources required to complete the cultural survey requirements and the Water/Soil Boring Exploration permit process are demanding and require additional time for coordination with not only regulatory personnel but additional archaeological subcontractors and cultural specialists. The cultural survey is now completed, the archaeological report is submitted and approved by State Land Office Cultural Resources, and the permitting process is completed. Tetra Tech and ConocoPhillips have initiated assessment activities at the site, and need additional time to complete the remediation activities and subsequent reporting.

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

Thank you in advance.

Sam

Samantha Abbott, PG | Project Manager

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

Tetra Tech, Inc. | *Leading with Science*[®] | OGA

8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetrattech.com

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2312933596
District RP	
Facility ID	fAPP2203451633
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	217817
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2312933596
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.6937 Longitude -103.5227
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Cuatro Hijos Fee 004H	Site Type	Flowline
Date Release Discovered	April 23, 2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
A	02	19S	34E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 1.7824	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a hole in flowline due to corrosion.

The release was off the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NAPP2312933596
District RP	
Facility ID	fAPP2203451633
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Brittany N. Esparza</u> Title: <u>Environmental Technician</u> Signature: <u></u> Date: <u>5/9/2023</u> email: <u>Brittany.Esparza@ConocoPhillips.com</u> Telephone: <u>(432) 221-0398</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>05/09/2023</u>

Received by OCD: 9/19/2023 8:27:07 AM		Spill Calculation - Subsurface Spill - Rectangle					Remediation Recommendation Page 17 of 76			
Convert Irregular shape into a series of rectangles		Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
	Rectangle A	20.0	20.0	2.0	Off-Pad ✓	15.02%	11.87	1.78	3.09	
	Rectangle B				✓		0.00		0.00	
	Rectangle C				✓		0.00		0.00	
	Rectangle D				✓		0.00		0.00	
	Rectangle E				✓		0.00		0.00	
	Rectangle F				✓		0.00		0.00	
	Rectangle G				✓		0.00		0.00	
	Rectangle H				✓		0.00		0.00	
	Rectangle I				✓		0.00		0.00	
Total Subsurface Volume Released:							1.7824		3.09	750
Released to Imaging: 12/18/2023 4:28:47 PM										
BU										

NAPP2312933596

Incident ID	NAPP2312933596
District RP	
Facility ID	fAPP2203451633
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?	105 _____ (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: <i>Each of the following items must be included in the report.</i>
<input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input checked="" type="checkbox"/> Field data
<input checked="" type="checkbox"/> Data table of soil contaminant concentration data
<input checked="" type="checkbox"/> Depth to water determination
<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
<input type="checkbox"/> Boring or excavation logs
<input checked="" type="checkbox"/> Photographs including date and GIS information
<input checked="" type="checkbox"/> Topographic/Aerial maps
<input checked="" type="checkbox"/> 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

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Incident ID	NAPP2312933596
District RP	
Facility ID	fAPP2203451633
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: Jacob Laird Title: Environmental Engineer

Signature: *Jacob Laird* Date: 9/18/2023

email: Jacob.laird@conocophillips.com Telephone: 575-703-5482

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2312933596
District RP	
Facility ID	fAPP2203451633
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: Jacob Laird Title: Environmental Engineer
 Signature: *Jacob Laird* Date: 9/18/2023
 email: jacob.laird@conocophillips.com Telephone: 575-703-5482

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: *Scott Rodgers* Date: 12/18/2023
 Printed Name: Scott Rodgers Title: Environmental Specialist Advanced

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 266720

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 266720
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/18/2023

APPENDIX B

Laboratory Analytical Data



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

July 15, 2024

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: CUATRO HIJOS FEE 4H PW FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/09/24 10:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/09/2024	Sampling Date:	07/09/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H PW FLOWLINE R	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY		

Sample ID: BACKFILL SAMPLE (H244065-01)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

111

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech
Project Manager: Lisbeth Chavez

P.O. #:
Company: Tetra Tech
Attn: Lisbeth Chavez

Address:
City: State: Zip:

Address: email
City: State: Zip:

Project #: 212C-MD-03154 Project Owner:

Phone #: Fax #:

Project Name: Contra Hydro Fee 44 PW Fleeting Release

Project Location: Lee County, NM

Sampler Name: Cobin Biskerstaff

Lab I.D. Sample I.D.

H244065
1 Borehole Sample

(G)RAB OR (C)OMP.
CONTAINERS: C11
MATRIX:
GROUNDWATER
WASTEWATER
 SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

DATE: 7/19/24
TIME:

Chloride
 BTEX
 TPH

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Relinquished By: [Signature] Date: 7/19/24 Time: 10:49

Received By: [Signature] Date: 7/19/24 Time: 10:49

Relinquished By: [Signature] Date: 7/19/24 Time: 10:49

Received By: [Signature] Date: 7/19/24 Time: 10:49

Remarks: Lisbeth Chavez tetra@tetra.tech.com

Delivered By: (Circle One) Observed Temp. °C: 5-12 Corrected Temp. °C: 5-12

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

FORM 0001 Rev 07/11/23

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



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

July 03, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: CUATRO HIJOS FEE 4H FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/29/23 11:45.

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
 SAM ABBOTT
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: AH - 1 (0-1') (H233363-01)

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	06/29/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	20.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: AH - 2 (0-1') (H233363-02)

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	07/03/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	07/03/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	07/03/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	07/03/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	07/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	15.4	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: AH - 3 (0-1') (H233363-03)

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	06/30/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	06/30/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	06/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: AH - 4 (0-1') (H233363-04)

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	06/30/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	06/30/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	06/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 1 (0-1') (H233363-05)

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	06/30/2023	ND	2.22	111	2.00	2.80		
Toluene*	<0.050	0.050	06/30/2023	ND	2.20	110	2.00	2.35		
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.14	107	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.59	110	6.00	3.28		
Total BTEX	<0.300	0.300	06/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	16100	16.0	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92		
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512		
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 1 (2'-3') (H233363-06)

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	06/30/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	06/30/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	06/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	5730	16.0	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 1 (3'-4') (H233363-07)

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	06/30/2023	ND	2.22	111	2.00	2.80	
Toluene*	<0.050	0.050	06/30/2023	ND	2.20	110	2.00	2.35	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.14	107	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.59	110	6.00	3.28	
Total BTEX	<0.300	0.300	06/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1280	16.0	06/30/2023	ND	448	112	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	06/29/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 1 (4'-5') (H233363-08)

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	06/30/2023	ND	2.05	102	2.00	1.84	
Toluene*	<0.050	0.050	06/30/2023	ND	2.03	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.00	100	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.10	102	6.00	1.86	
Total BTEX	<0.300	0.300	06/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1360	16.0	06/30/2023	ND	448	112	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	06/30/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/30/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/30/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 1 (5'-6') (H233363-09)

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	06/30/2023	ND	2.05	102	2.00	1.84	
Toluene*	<0.050	0.050	06/30/2023	ND	2.03	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.00	100	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.10	102	6.00	1.86	
Total BTEX	<0.300	0.300	06/30/2023	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	80.0	16.0	06/30/2023	ND	448	112	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	06/30/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/30/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/30/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

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

Received:	06/29/2023	Sampling Date:	06/29/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: T - 2 (0-1') (H233363-10)

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	06/30/2023	ND	2.05	102	2.00	1.84	
Toluene*	<0.050	0.050	06/30/2023	ND	2.03	102	2.00	2.13	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	2.00	100	2.00	1.32	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	6.10	102	6.00	1.86	
Total BTEX	<0.300	0.300	06/30/2023	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	12200	16.0	06/30/2023	ND	448	112	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	06/30/2023	ND	169	84.4	200	1.92	
DRO >C10-C28*	<10.0	10.0	06/30/2023	ND	156	78.1	200	0.512	
EXT DRO >C28-C36	<10.0	10.0	06/30/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech Project Manager: Sam Abbott Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: Phone #: (512)565-0190 Fax #: Project #: 212C-MD-03154 Project Owner: ConocoPhillips Project Name: Cuatro Hijos Fee 4H Flowline Release Project Location: Lea County, New Mexico Sampler Name: Colton Bickerstaff Lab I.D.		P.O. #: Company: Tetra Tech Attn: Sam Abbott Address: EMAIL City: State: Zip: Phone #: Fax #:		BILL TO		ANALYSIS REQUEST	
Relinquished By: Colton Bickerstaff Date: 8/29/23 Time: 1145 Date: Time:		Received By: Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com Add'l Phone #:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp, °C: 6.2 Corrected Temp, °C: 5.6 Sample Condition: Cool intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) J.K.		Thermometer Time: Janeland <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Thermometer ID #113 <input type="checkbox"/> Cool Intact Observed Temp, °C Correction Factor -0.5°C <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp, °C	

Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H33313													
1 AH-1 (0-1')	G	1	X					6/29/2023		X	X	X	
2 AH-2 (0-1')	G	1	X					6/29/2023		X	X	X	
3 AH-3 (0-1')	G	1	X					6/29/2023		X	X	X	
4 AH-4 (0-1')	G	1	X					6/29/2023		X	X	X	
5 T-1 (0-1')	G	1	X					6/29/2023		X	X	X	
6 T-1 (2-3')	G	1	X					6/29/2023		X	X	X	
7 T-1 (3-4')	G	1	X					6/29/2023		X	X	X	
8 T-1 (4-5')	G	1	X					6/29/2023		X	X	X	
9 T-1 (5-6')	G	1	X					6/29/2023		X	X	X	
10 T-2 (0-1')	G	1	X					6/29/2023		X	X	X	

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

FORM-006 R 3.2 10/07/21



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

August 16, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: CUATRO HIJOS FEE 4H FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/15/23 13:12.

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
 SAM ABBOTT
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: NSW - 1 (H234375-01)

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	08/16/2023	ND	2.07	103	2.00	3.36	
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	32.0	16.0	08/16/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2023	ND	182	91.2	200	4.80	
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	184	92.2	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: SSW - 1 (H234375-02)

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	08/16/2023	ND	2.07	103	2.00	3.36	
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 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	08/16/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2023	ND	182	91.2	200	4.80	
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	184	92.2	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: ESW - 1 (H234375-03)

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	08/16/2023	ND	2.07	103	2.00	3.36	
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	<16.0	16.0	08/16/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2023	ND	182	91.2	200	4.80	
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	184	92.2	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: WSW - 1 (H234375-04)

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	08/16/2023	ND	2.07	103	2.00	3.36		
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82		
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80		
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74		
Total BTEX	<0.300	0.300	08/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	48.0	16.0	08/16/2023	ND	416	104	400	3.77	QM-07	

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	08/16/2023	ND	182	91.2	200	4.80		
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	184	92.2	200	4.07		
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND						

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: FS - 1 (H234375-05)

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	08/16/2023	ND	2.07	103	2.00	3.36	
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	320	16.0	08/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2023	ND	202	101	200	4.06	
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	204	102	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2023	Sampling Date:	08/15/2023
Reported:	08/16/2023	Sampling Type:	Soil
Project Name:	CUATRO HIJOS FEE 4H FLOWLINE RELE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03154	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY		

Sample ID: FS - 2 (H234375-06)

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	08/16/2023	ND	2.07	103	2.00	3.36	
Toluene*	<0.050	0.050	08/16/2023	ND	2.02	101	2.00	1.82	
Ethylbenzene*	<0.050	0.050	08/16/2023	ND	1.93	96.6	2.00	2.80	
Total Xylenes*	<0.150	0.150	08/16/2023	ND	5.84	97.3	6.00	3.74	
Total BTEX	<0.300	0.300	08/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	336	16.0	08/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2023	ND	200	99.9	200	2.88	
DRO >C10-C28*	<10.0	10.0	08/16/2023	ND	225	112	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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

- 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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

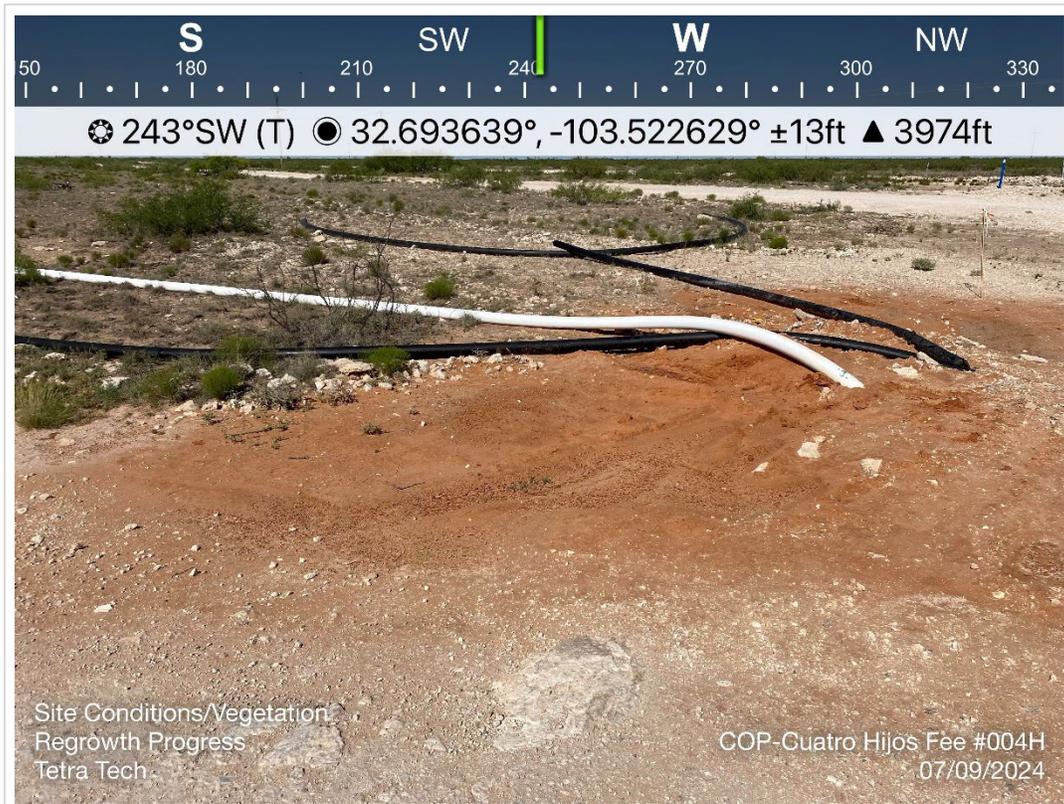
Company Name: Tetra Tech		P.O. #:			
Project Manager: Sam Abbott		Company: Tetra Tech			
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Sam Abbott			
City: Austin		Address: EMAIL			
Phone #: (512)565-0190		City:			
Fax #: 212C-MD-03154		State:			
Project #: 212C-MD-03154		Zip:			
Project Name: Cuatro Hijos Fee 4H Flowline Release		Project Owner: ConocoPhillips			
Project Location: Lea County, New Mexico		Phone #:			
Sampler Name: Colton Bickerstaff, Andrew Garcia		Fax #:			
Lab I.D.		PRESERV.		SAMPLING	
Sample I.D.		GROUNDWATER			
		WASTEWATER			
(G)RAB OR (C)OMP. # CONTAINERS MATRIX SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE		TIME	
		TPH 8015M			
		BTEX 8021B			
		Chloride SM4500Cl-B			
Relinquished By: Colton Bickerstaff Date: 8/15/23 Time: 7:12 Received By: <i>[Signature]</i> Date: <i>[Signature]</i> Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com Add'l Phone #:		REMARKS:	
Diverted By: (Circle One) Sample: - I/RS - Bus - Other:		Observed Temp.: C Corrected Temp.: C Sample Condition Cool Jacket: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <i>[Signature]</i> (Initials)		Transmittance: Standard <input type="checkbox"/> Bacteria (only) sample Condition Risk: YES, 24hr RUSH TAT <input checked="" type="checkbox"/> Cool Jacket Observed Temp.: C Thermometer ID #140 Correction Factor 0.02 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp.: C	

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

FORM-006 R.3.2.10/07/21

APPENDIX C

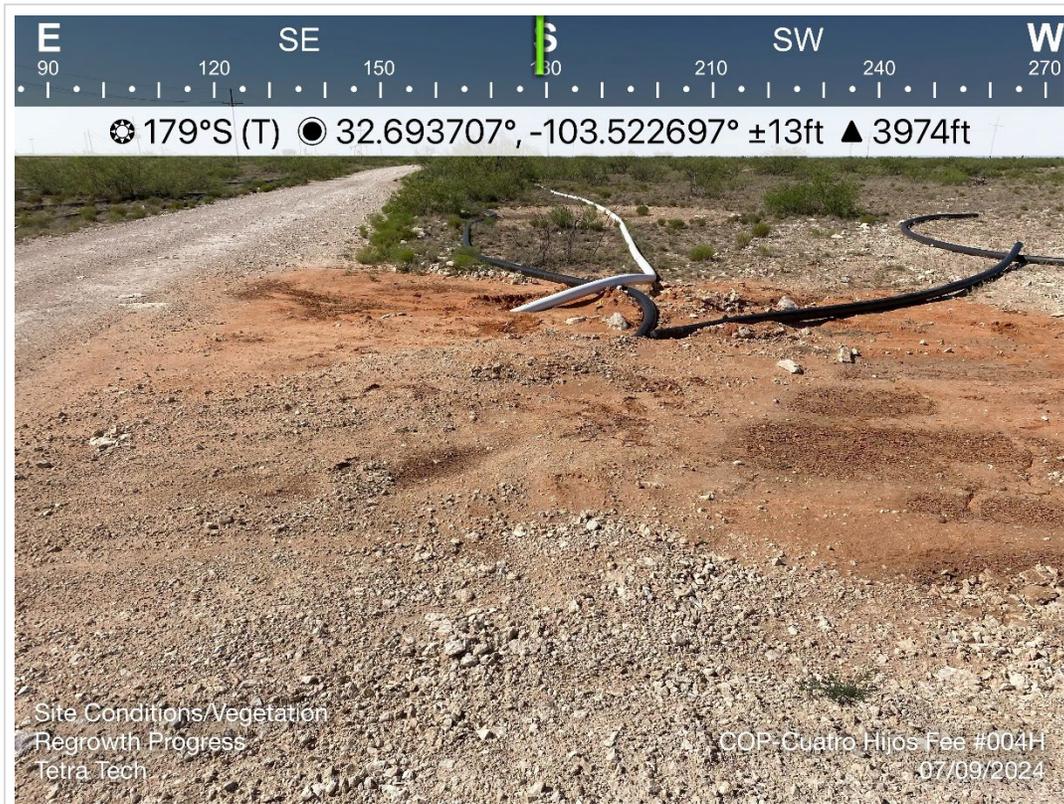
Photographic Documentation



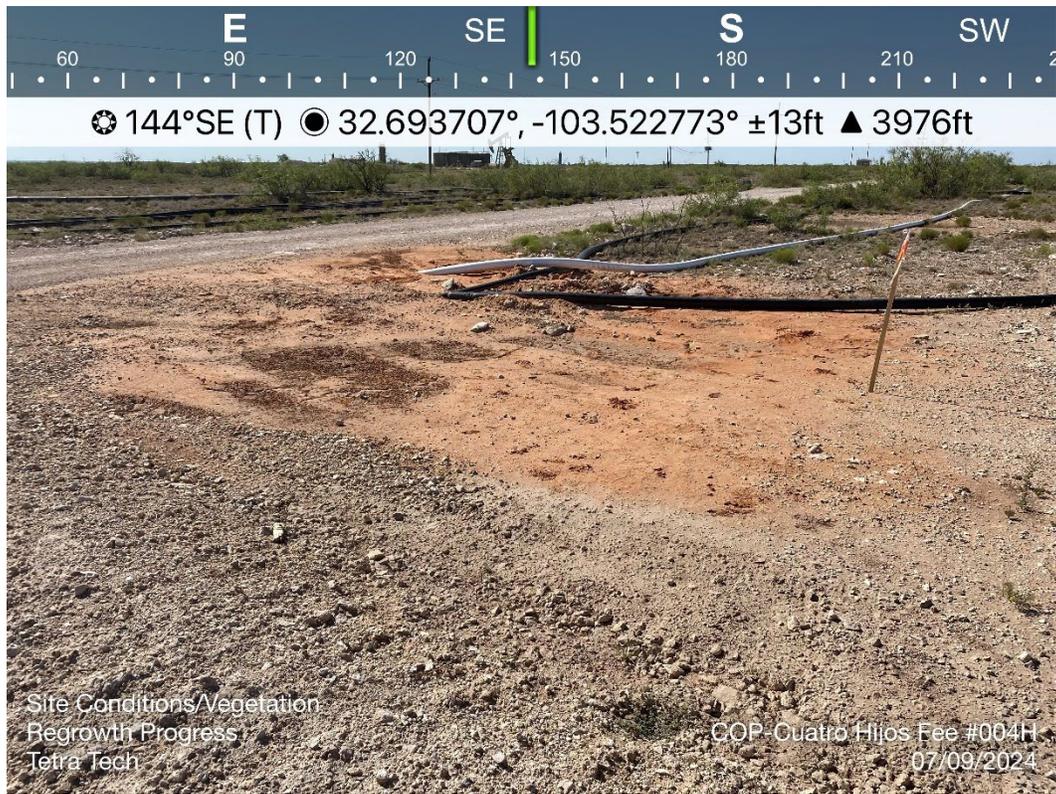
TETRA TECH, INC. PROJECT NO. 212C-MD-03154	DESCRIPTION	View southwest. View of remediated area. View of multiple poly lines.	1
	SITE NAME	Cuatro Hijos Fee #004H Flowline Release	7/9/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03154	DESCRIPTION	View southwest. View of remediated area. View of multiple poly lines.	2
	SITE NAME	Cuatro Hijos Fee #004H Flowline Release	7/9/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03154	DESCRIPTION	View south. View of remediated area. View of multiple poly lines.	3
	SITE NAME	Cuatro Hijos Fee #004H Flowline Release	7/9/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03154	DESCRIPTION	View southeast. View of remediated area. View of multiple poly lines.	4
	SITE NAME	Cuatro Hijos Fee #004H Flowline Release	7/9/2024

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QUESTIONS

Action 371813

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2312933596
Incident Name	NAPP2312933596 CUATRO HIJOS FEE 4H BAT @ 30-025-41752
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-41752] CUATRO HIJOS FEE #004H
Incident Facility	[fAPP2203451633] Cuatro hijos FEE 4H BAT

Location of Release Source

Please answer all the questions in this group.

Site Name	CUATRO HIJOS FEE 4H BAT
Date Release Discovered	04/23/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	False
The impacted area has been secured to protect human health and the environment	False
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	NA

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/08/2024
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QUESTIONS, Page 3

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	16100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9
GRO+DRO (EPA SW-846 Method 8015M)	9
BTEX (EPA SW-846 Method 8021B or 8260B)	0.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/15/2024
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	08/17/2024
What is the estimated surface area (in square feet) that will be reclaimed	446
What is the estimated volume (in cubic yards) that will be reclaimed	52
What is the estimated surface area (in square feet) that will be remediated	446
What is the estimated volume (in cubic yards) that will be remediated	52

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Cuatro Hijos Fee [fAPP2413537039]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/08/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	371830
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/29/2023
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	446
What was the total volume (cubic yards) remediated	52
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	446
What was the total volume (in cubic yards) reclaimed	52
Summarize any additional remediation activities not included by answers (above)	NA

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/08/2024
--	---

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QUESTIONS, Page 7

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	446
What was the total volume of replacement material (in cubic yards) for this site	52

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/17/2023

Summarize any additional reclamation activities not included by answers (above)	NA
---	----

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/08/2024
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 8

Action 371813

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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
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CONDITIONS

Action 371813

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 371813
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	8/30/2024