

June 16, 2023

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

### Re: Release Characterization and Remediation Work Plan ConocoPhillips-Heritage Concho Talco 9-26-35 Federal 003H Flowline Release Unit Letter G, Section 09, Township 26 South, Range 35 East Lea County, New Mexico DOR: 3/28/2023 Incident ID# NAPP2308946629

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from a flowline associated with the Talco 9-26 35 Federal 003H (API 30-025-43458). The release footprint is located in Public Land Survey System (PLSS) Unit Letter G, Section 09, Township 26 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.057784°, -103.371235°, as shown on Figures 1 and 2.

#### BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release occurred as the result of flowline corrosion and was discovered on March 28, 2023. The release of approximately 14.2 barrels (bbls) of crude oil and 33.2 bbls of produced water were reported. The extent of the release was identified based on information provided by ConocoPhillips representatives, and a review of photographs and observations made during a site visit at the release area on March 31, 2023. The release extent was described in the spill calculator as equaling 1,239 square feet. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on March 30, 2023 and subsequently assigned the release Incident ID NAPP2308946629.

#### LAND OWNERSHIP

The Site is located on land owned by the Bureau of Land Management (BLM). Following the release, Tetra Tech requested BLM clearance to remediate via email. The BLM cleared the Site for remediation activities via email, following a desktop review conducted by Shelly Taylor of the BLM. The correspondence is included in Appendix B.

#### **INITIAL RESPONSE**

In accordance with 19.15.29.8. B. (4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the impacted area footprint in April 2023. The NAPP2308946629 release extent is located in pastureland south of the developed well pad.

Initial response remedial actions were performed at the release site on April 6, 2023. Visibly stained areas were partially excavated to depths at 1 to 3 feet below ground surface (bgs) to remove impacted materials. Approximately 60 cubic yards of contaminated soil were removed and sent to R360 Halfway Facility in

Hobbs, New Mexico for disposal. The initial response areas are indicated in Figure 3. Photographic documentation of the initial response action is found in Appendix C. Waste manifests from the initial response are included in Appendix D.

### SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. There is one (1) water well within 3.1 miles (5,000 meters) of the site with a depth to groundwater of 230 feet below ground surface (bgs).

As the available water level information was from a well further than ½ mile away from the Site, COP elected to drill a boring for groundwater verification. On May 24, 2023, a licensed drilling subcontractor was onsite to a drill a depth-to-water (DTW) borehole to 55 feet bgs. The borehole was located on the developed pad approximately 460-feet northwest. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8" bentonite chips. The borehole coordinates are 32.058777°, -103.370256°, and the boring location is indicated on Figure 4B. The site characterization data, along with the boring log, is included in Appendix E.

### **REGULATORY FRAMEWORK**

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

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the proposed RRALs for the Site are as follows:

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

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

Constituent	<b>Reclamation Requirements</b>
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

## INITIAL SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area on April 19, 2023. A total of eleven (11) soil borings (HA-1 through HA-11) were installed using a hand auger within and around the release area to evaluate the vertical and horizontal extent of the release. HA-1 through HA-4 were installed within the release extent to assess the vertical extent of impact. The remainder of the borings were installed

around the perimeter of the release footprint to delineate the horizontal extent of impacted soil. The boring locations are shown on Figure 4A.

A total of twenty-nine (29) samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal). The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix F.

Results from the April 2023 soil sampling event are summarized in Table 1. Analytical results associated with boring location HA-2, HA-3 and HA-4 exceeded the RRALs for TPH in soils to depths of 8, 4 and 4 feet below surrounding grade, respectively. Additionally, results associated with HA-1, HA-2, HA-3 and HA-4 exceeded chloride and/or TPH reclamation requirements for soils above 4 feet bgs. All other analytical results from the April 2023 sampling were below Site RRALs and reclamation requirements for soils above 4 feet bgs. While horizontal delineation of the release area was successful, vertical delineation was not achieved during the April 2023 sampling event due to depth limitations associated with using a hand auger.

# ADDITIONAL SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel returned to the Site to complete vertical delineation of the release area on May 25, 2023. One trench (T-1) was advanced within the release footprint at the previously installed HA-2 boring location to obtain soil samples from a greater depth. T-1 was advanced to a depth of 14 feet below surrounding grade. The trench location is shown on Figure 4A.

A total of five (5) samples were collected from the trench location and transferred under chain of custody and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix F.

Results from the May 2023 soil sampling event are summarized in Table 1. Analytical results associated with the sampled intervals from trench location T-1 were below RRALs and reclamation requirements for TPH, BTEX and chloride. Thus, following the May 2023 additional assessment activities, the release is considered fully delineated.

## REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown on Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 8 feet below pre-release grade or until a representative sample from the walls and bottom of the excavation is below the applicable RRALs. Any area containing pressurized lines will be hand-dug to the proposed depth shown on Figure 5 or the maximum extent practicable; heavy equipment will come no more than 4 feet from any pressurized lines. The estimated volume of material to be remediated is approximately 406 cubic yards. Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility.

In accordance with 19.15.29.12(D)(1)(c) NMAC, confirmation floor and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Prior to confirmation sampling the NMOCD district office will be notified in accordance with Subsection D of 19.15.29.12 NMAC.

# CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Six (6) confirmation floor samples and five (5) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 1,670 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be sent to an accredited analytical laboratory for analysis of chloride, TPH, and BTEX.

### SITE RECLAMATION AND RESTORATION PLAN

Once acceptable confirmation sample results are received, the excavation will be backfilled with clean material to pre-release grade. The off-pad, pasture backfilled areas will be seeded to aid in revegetation. Based on the location of the Site, the BLM seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G.

## CONCLUSION

Remediation activities at the Site are proposed to begin within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD.

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

Sincerely, Tetra Tech, Inc.

"/ulherfeld

Nicholas M. Poole Project Lead

cc: Mr. Jacob Laird, GPBU - ConocoPhillips

Christian M. Llull, P.G. Program Manager

# LIST OF ATTACHMENTS

### Figures:

Figure 1 – Overview Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Approximate Release Extent and Initial Response

Figure 4A – Site Assessment

Figure 4B – Site Assessment (DTW Boring)

Figure 5 – Proposed Remediation Extent

Figure 6 – Confirmation Sampling Plan

# Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

# Appendices:

Appendix A – C-141 Forms

Appendix B – Regulatory Correspondence

Appendix C – Photographic Documentation

Appendix D – Initial Response Waste Manifests

Appendix E – Site Characterization

Appendix F – Laboratory Analytical Data

Appendix G - Seed Mixture Details

ConocoPhillips

# FIGURES















# TABLES

#### TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - NAPP2308946629 CONOCOPHILLIPS TALCO 9 26 35 FEDERAL #003H FLOWLINE RELEASE LEA COUNTY, NM

									BTEX	2								TPH <sup>3</sup>			
		Sample Depth	Chlorid	de1	0		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO	EXT DRO		(CRO, DRO)	Total TPH
					Benzei	ne	Toluer	ne	Ethylben	zene	TOTAL XY	enes	IOTALB	IEA	C <sub>6</sub> - C <sub>1</sub>	0	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C	36	(GRO+DRO)	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	mg/kg
Sample ID	Sample Date	Closure Criteria for Pasture / Off-Pad Soils 0-4' bgs:	<u>600 mg</u>	<u>/kg</u>	<u>&lt; 10 mg</u>	<u>/kg</u>	-				-		<u>&lt; 50 mg</u>	<u>/kg</u>			-			-	<u>100 mg/kg</u>
		Closure Criteria for Soils >4' bgs (GW 50- 100 ft):	<u>10,000 m</u>	ng/kg	<u>&lt; 10 mg</u>	<u>/kg</u>	-						<u>&lt; 50 mg</u>	<u>/kg</u>						<u>1000 mg/kg</u>	<u>2500 mg/kg</u>
		3-4	688		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		538	93.5		538	631.5
		4-5	2,080		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		11.1	< 10.0		11.1	11.1
HA-1	4/19/2023	5-6	2,440	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19.9	< 10.0		19.9	19.9
		6-7	5,120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
		7-8	4,280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.3	< 10.0		12.3	12.3
		8-9	3,400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
		3-4	3,720		<2.00		16.4		11.1		57.7		85.2		1890		13700	2870		15,590	18,460
		4-5	1,840		4.67		55		35.1		204		299		3950		14000	1670		17,950	19,620
	4/40/2022	5-6	2,800		2.36	QM-07, QR-03	32.1	QM-07, QR-03	21.8	QM-07, QR-03	123	QM-07, QR-03	179	QM-07, QR-03	4280		15600	3010		19,880	22,890
	4/19/2023	6-7	4,560		1.9	QROS	31.4	Q, COS	23.6	0,105	135	QIV 05	192	0,105	3570		12400	2220		15,970	18,190
		7-8	5,120		0.061		2.15		2.84		15.6		20.7		675		3120	526		3,795	4,321
HA-2 / T-1		8-9	1,250		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		221	41.7		221	262.7
		9-10	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		67.7	< 10.0		67.7	67.7
		10-11	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		34.5	< 10.0		34.5	34.5
	5/25/2023	11-12	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
		12-13	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	
		13-14	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
	Ì	0-1	48.0		<5.00		18		11.9		69		98.9		2840		7970	1470		10,810	12,280
		1-2	32.0		<0.050		1.2		1.38		7.81		10.4		440		2550	461		2,990	3,451
HA-3	4/19/2023	2-3	32.0		<0.050		1.2		1.38		7.81		10.4		440		2550	461		2,990	3,451
		3-4	16.0		1.16		22.4		15		82.9		121		1670		4760	864		6,430	7,294
		3-4	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		238	49.8		238	287.8
		4-5	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.5	< 10.0		12.5	12.5
HA-4	4/19/2023	5-6	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19.7	< 10.0		19.7	19.7
	.,,	6-7	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		71.5	16.3		71.5	87.8
		7-8	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.3	< 10.0		13.3	13.3
HA-5	4/19/2023	2-3	<16.0		< 0.050		< 0.050	1	< 0.050		< 0.150		< 0.300	1	< 10.0		< 10.0	< 10.0			-
HA-6	4/19/2023	0-1	160.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
HA-7	4/19/2023	0-1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-
HA-8	4/19/2023	0-1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0			-
HA-9	4/19/2023	0-1	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0			-
HA-10	4/19/2023	0-1	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0			-
HA-11	4/19/2023	0-1	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0			
HA-12	5/24/2023	0-1	<16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0	< 10.0		-	-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

- DRO Diesel range organics
- Method SM4500CI-B 1
- 2 Method 8015M 3

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.

Method 8021B

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

Bold and italicized values indicate exceedance of proposed Site RRALs.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

QR-03

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# APPENDIX A C-141 Forms

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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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**

Longitude

Latitude			

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

(NAD 83 in decimal degrees to 5 decimal places)

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)

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

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If YES, was immediate no	otice 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

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

The source of the release has been stopped.

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:	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date: 03/30/2023

Received by OCD: 6/19/2023 8:51:23 AM Spill Calculation - Subsurface Spill - Rectangle NAPP2308946629							Remediation Recommendation					
Convert Irregular shape	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area <mark>(</mark> bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)		Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd <sup>3</sup> .)	Page 19 of 89 Current Rule of Thumb - RMR Handover Volume, (yd <sup>3</sup> .)
Rectangle A	17.0	8.0	9.0	Off-Pad ∽	15.02%	18.16	2.73		0.82	1.91	4.72	
Rectangle B	7.0	12.0	9.0	Off-Pad ∽	15.02%	11.21	1.68		0.51	1.18	2.92	
Rectangle C	11.0	20.0	12.0	Off-Pad ∽	15.02%	39.16	5.88		1.76	4.12	10.19	
Rectangle D	10.0	13.0	12.0	Off-Pad ∽	15.02%	23.14	3.48		1.04	2.43	6.02	
Rectangle E	13.0	8.0	12.0	Off-Pad ∽	15.02%	18.51	2.78	30%	0.83	1.95	4.81	750
Rectangle F	6.0	13.0	12.0	Off-Pad ∽	15.02%	13.88	2.09	50 %	0.63	1.46	3.61	750
Rectangle G	3.0	13.0	12.0	Off-Pad ∽	15.02%	6.94	1.04		0.31	0.73	1.81	]
Rectangle H	4.0	27.0	24.0	Off-Pad ∽	15.02%	38.45	5.77		1.73	4.04	10.00	
Rectangle I	5.0	12.0	24.0	Off-Pad ∽	15.02%	21.36	3.21		0.96	2.25	5.56	
Released 10 Amaging: 9	/18/2023	2404941	<u>PM</u> 0.0	Off-Pad ∽	15.02%	124.60	18.71		5.61	13.10	32.41	
Total Subsurface Volume Released:				47.3755		14.2126	33.1628	82.04	BU			

Received by OCD: 6/19/2023 8:51:23 AM Form C-141 State of New Mexico

Oil Conservation Division

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District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 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)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 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?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

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

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

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

Laboratory data including chain of custody

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

Page 3

Received by OCD: 6/19/20	223 8:51:23 AM State of New Mexico			Page 21 of 89
Form C-141			Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name:	bormation given above is true and complete to the e required to report and/or file certain release not iment. The acceptance of a C-141 report by the 0 gate and remediate contamination that pose a thr of a C-141 report does not relieve the operator of <i>Laind</i>	ifications and perform cc OCD does not relieve the eat to groundwater, surfa f responsibility for compl _ Title: Date:	prrective actions for rele coperator of liability sh- ce water, human health iance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by: <u>Joce</u>	lyn Harimon	Date:06/	20/2023	

Received by OCD: 6/19/2023 8:51:23 AM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

<b><u>Remediation Plan Checklist</u></b> : Each of the following items must b	e included in the plan.
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation point</li> <li>Estimated volume of material to be remediated</li> </ul>	s
Closure criteria is to Table 1 specifications subject to 19.15.29. Proposed schedule for remediation (note if remediation plan times)	
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation
Contamination must be in areas immediately under or around pr deconstruction.	
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations. Title: Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:06/20/2023
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Nelson Velez	Date: 09/18/2023

Remediation plan is approved as written. COG has 90-days (December 18, 2023) to submit its appropriate or final closure report.

# APPENDIX B Regulatory Correspondence

From:	Taylor, Shelly J
То:	Llull, Christian
Subject:	Re: [EXTERNAL] Fwd: COP - TALCO 9 26 35 Federal #003H FL Release
Date:	Friday, May 05, 2023 1:14:56 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	image005.png
	Outlook-f1y5sh3p.png

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

You are cleared to proceed with all activities. I am going to check to see if you need to pay into the PBPA.

Sincerely,

Shelly J'Taylor

Environmental Protection Specialist Realty - Compliance

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

# Spill/Release email: BLM\_NM\_CFO\_REALTY\_SPILL@BLM.GOV

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



From: Llull, Christian <Christian.Llull@tetratech.com>
Sent: Friday, May 5, 2023 11:14 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Subject: [EXTERNAL] Fwd: COP - TALCO 9 26 35 Federal #003H FL Release

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

On topic. See below. Can you clear us?

# Christian

Get Outlook for iOS

From: Llull, Christian
Sent: Tuesday, April 18, 2023 2:51:46 PM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Subject: COP - TALCO 9 26 35 Federal #003H FL Release

Shelly,

The **TALCO 9-26-35 Flowline Release** is just off pad on BLM land. See attached kmz. Site in Lea County, NM about 11.1 miles southwest of Jal on BLM land.

TALCO 9-26-35 Flowline Release API 30-025-43458 32.05816, -103.36893 DOR 3/28/23 Off-pad in Pasture Flowline Incident ID NAPP2308946629 BLM Land

We will plan to remediate in the next 60 days. Should I submit this to the CFO real estate email address <u>blm\_nm\_cfo\_realty\_spill@blm.gov</u>?

Christian Llull, P.G. | Program Manager Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | <u>christian.llull@tetratech.com</u>

# Tetra Tech | Leading with Science<sup>®</sup> | OGA

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

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

	Please consider the environment before printing. Read more	
?		

•

# APPENDIX C Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	Site signage. Talco 9 26 35 Federal 3H and location information.	1
212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of release point and footprint.	2
212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC.	DESCRIPTION	View north. Release footprint, surface staining.	3
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC.	DESCRIPTION	View southwest. Eastern portion of release area, surface staining.	4
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east. Release footprint, surface staining.	5
212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southwest. Release footprint, surface staining.	6
212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	3/31/2023



TETRA TECH, INC.	DESCRIPTION	View west. Initial Response excavation, exposed subsurface steel line.	7
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	4/19/2023



TETRA TECH, INC.	DESCRIPTION	View east. Initial Response excavation, exposed subsurface steel line.	8
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	4/19/2023



TETRA TECH, INC.	DESCRIPTION	View north. Initial Response excavation, surface staining.	9
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	4/19/2023



TETRA TECH, INC.	DESCRIPTION	View west. Initial Response excavation, residual staining.	11
PROJECT NO. 212C-MD-03073	SITE NAME	Talco 9 26 35 Federal #003H Flowline Release	4/19/2023

# APPENDIX D Initial Response Waste Manifests

Received by OCD: 6/19/2023 8:51:23	AM			Page 33 of 89
R3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	MICHELLE MULLINS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	
Facility: CRI				
Product / Service		Quantity	y Units	
Contaminated Soil (RCRA Exemp	t)	12.	00 yards	
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	source Conserv re described wa nerated from oi e which is non-l ulations, 40 CF n is attached to	vation and Recovery Act (RCRA) a ste is: il and gas exploration and producti hazardous that does not exceed the R 261.21-261.24 or listed hazardou demonstrate the above-described v	on operations and minimum standar is waste as defined waste is non-hazard	are not mixed with non-exempt waster rds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representative	Signature	
				2
Customer Approval			V	
	THI	S IS NOT AN INVO	ICE!	
Approved By:		Date:		

.

Received by OCD: 6/19/2023 8:51:23	AM Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	MICHELLE MULLINS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well %: Field: Field #: Rig: County	
Facility: CRI				
Product / Service		Quantity l	Jnits	
Contaminated Soil (RCRA Exemp	t)	12.00	yards	
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Here	esource Conserv ve described was enerated from o e which is non- gulations, 40 CF n is attached to	vation and Recovery Act (RCRA) and ste is: il and gas exploration and production hazardous that does not exceed the m R 261.21-261.24 or listed hazardous v demonstrate the above-described was Analysis Process Knowledge	operations and inimum standar vaste as defined ste is non-hazard Other (Prov	are not mixed with non-exempt waster ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representative S	ignature	2
Customer Approval		<b>,</b>	V	
		S IS NOT AN INVOID	CE!	
Approved By:		Date:		

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Received by OCD: 6/19/	/2023 8:51:23 A	1 <i>M</i>			Page 35 of 89
ENVIRONMENTAL SOLUTIONS		Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver	MICHELLE MULLINS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field:	
	ר כ	Fruck # Card # Job Ref #	115	Field #: Rig: County	NON-DRILLING LEA (NM)
Facility: CRI					
Product / Service	989312333		Quan	tity Units	
Contaminated Soil (R	CRA Exempt)			12.00 yards	
1988 regulatory determine <u>X</u> RCRA Exempt: Oil F <u>RCRA Non-Exempt:</u> characteristics established amended. The following	rding to the Resc ation, the above Field wastes gene Oil field waste v d in RCRA regul documentation i	ource Conserv described wa erated from oi which is non-l lations, 40 CF is attached to	vation and Recovery Act (RCRA ste is: il and gas exploration and produ hazardous that does not exceed R 261.21-261.24 or listed hazard	uction operations and the minimum standar dous waste as defined ed waste is non-hazard	in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signatu	ire		R360 Representati	ive Signature	2.
Customer Approval				le faire and an	
			S IS NOT AN INV	OICE!	
Approved By:		THI	S IS NOT AN INV Date:		

.

Recej	DBA: Norther 8201 Prest Dalla 214	<b>fill Services, LLC</b> In Delaware Basin Landfill con Rd., Suite 520 as, TX 75225 2292.2011 blandfill.com	SIGNATURE:	rrized Agent's Printed Name and Title)	) MANIFES <sup>Page 36</sup> df 89
	COMPANY NAME:			DATE:/ /	<u> </u>
	LEASE: Talcoll.			PHONE:	
	AFE #:	_ API: <u>/_</u>	5-23/152	QUANTITY:	BBLS
	RIG NAME:	WELL #:	- fort	10	YARDS
	STATE & COUNTY ORIGIN:	Lea			
	Waste Description (check only	one box)	RCRA Exempt	RCRA	Non-Exempt
Generator	Water Based Cuttings (DRY)	Water Based Cutting		Contaminated Soil	Produced Sands
e la	<ul> <li>Oil Based Cuttings (DRY)</li> <li>Oil Base Mud</li> </ul>	<ul> <li>Oil Based Cuttings (\</li> <li>Water Base Mud</li> </ul>		injectable Fluids Muds w/Cement	Non-Injectable Fluids Tank Bottoms
en	Rig Trash	Pit Liners	· استا	ndus weenene	
5	Other:		Aut	horize Washout?	Yes No
5	I hereby certify that according to the Resource Co is (Check the appropriate classification)	onservation and Recovery Act (RCRA)	) and the US Environmental Pro	tection Agency's July 1988 regulatory	determination, the above described waste load
Part		vastes generated from oil and gas ions on a per load basis only)	exploration and production	operations and are not mixed with	non-exempt waste (NDBL Accepts
Button	RCRA NON-EXEMPT: Oilfield w regulatio	vaste which is non-hazardous that	l hazardous waste as defined	by 40 CFR, part 261, subpart D, as a	y characteristics established in RCRA mended. The following documentation
	EMERGENCY NON-OILFIELD: Emergen		aste that has been ordered by	y the Department of Public Safety (	(Provide Description Below) 
	(Print) Authorized Agent's Name		Date	Signature	
<u> </u>		· · · · · · · · · · · · · · · · · · ·		GENERATOR IS PRESENT	
rter		COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #:	EGENERATOR IS PRESENT	TRUCK #:5
porter	COMPANY NAME: JACOMPANY NAME:		NSPORTER WHILE THE YARD #: TICKET #: 73/7	EGENERATOR IS PRESENT	TRUCK #: // 5 TRAILER #:
	COMPANY NAME: JACON TO BE ADDRESS: 110 ACT MAN DATE TIME		NSPORTER WHILE THE YARD #: TICKET #: 73/.7 DISPATCHER	GENERATOR IS PRESENT WHP #: 7.6 ROLL OFF BIN#: [	TRAILER #: DISPATCHER
Transp	COMPANY NAME: J TO BE ADDRESS: <u>J la ger man</u> DATE TIME RECEIVED: RECEIVED	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: TICKET #: 73/7 DISPATCHER NAME:	GENERATOR IS PRESENT WHP #: 7.6 ROLL OFF BIN#: [	TRAILER #: DISPATCHER PHONE #:
2 - Transt	COMPANY NAME: J TO BE ADDRESS: <u>J la ger man</u> DATE TIME RECEIVED: RECEIVED	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: TICKET #: <u>73/.</u> DISPATCHER NAME: ed by the truck driver p IN THIS VESSEL SINCE	GENERATOR IS PRESENT WHP #: ROLL OFF BIN#: F Orior to unloading at dispos E LOADING OF MATERIAL D	TRAILER #: DISPATCHER PHONE #: al facility:
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Part 2 - Trans	TO BE COMPANY NAME: J K ADDRESS: J G ACT MAN DATE TIME RECEIVED: RECEIVED The followin "I CERTIFY THAT NO OTHER MAT DRIVER: K CERTIFY I, (TRANSPORTER), CERTIFY FACILITY RECEIVED AT (Check One):	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: TICKET #: DISPATCHER NAME: ed by the truck driver p IN THIS VESSEL SINCE DRIVEF	GENERATOR IS PRESENT WHP #: ROLL OFF BIN#: F Drior to unloading at dispose LOADING OF MATERIAL D R'S SIGNATURE: / STRUE AND ACCURATE TO THE	TRAILER #: DISPATCHER PHONE #: al facility: ESCRIBED IN PART 1 ABOVE."
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- Disposal Facility Part 2 - Trans	TO BE COMPANY NAME: J K ADDRESS: J GACT MAN DATE TIME RECEIVED: RECEIVED The followin "I CERTIFY THAT NO OTHER MAT DRIVER: K J CONTINUER (Drive I, (TRANSPORTER), CERTIFY FACILITY RECEIVED AT (Check One): Northern Delaware Basin Lanc 2029 W. NM Highway 128   Jal, ACCEPTANCE TESTING: PAINT FILTE TCLP: TOX:	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: DISPATCHER NAME: ed by the truck driver p IN THIS VESSEL SINCE DRIVEF VEN ON THIS MANIFEST IS ETED BY OWL LANDFIL DATE: NORM TESTING: YULLIANDFIL DATE: MARM TESTING: YULLIANDFIL DATE: MARM	GENERATOR IS PRESENT WHP #: CONTINUE CO	TRAILER #: DISPATCHER PHONE #: al facility: JESCRIBED IN PART 1 ABOVE." JESTOF MY KNOWLEDGE AM / PM AM / PM TIME OUT:
3 - Disposal Facility 📕 Part 2 - Trans	TO BE COMPANY NAME: J K ADDRESS: J GACINGA DATE TIME RECEIVED: RECEIVED The followin "I CERTIFY THAT NO OTHER MAT DRIVER: J J J J (Drive I, (TRANSPORTER), CERTIFY FACILITY RECEIVED AT (Check One): Northern Delaware Basin Lanc 2029 W. NM Highway 128   Jal, ACCEPTANCE TESTING: PAINT FILTE TCLP:	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: DISPATCHER NAME: ed by the truck driver p IN THIS VESSEL SINCE DRIVEF VEN ON THIS MANIFEST IS ETED BY OWL LANDFIL DATE: NORM TESTING: (Less than 50 MCR) has receit	GENERATOR IS PRESENT  WHP #:  CONTENT OF BIN#:  CONTENT OF BING OF BIN#:  CONTENT OF BING OF MATERIAL D  CONTENT OF BING OF MATERIAL D  CONTENT OF BING OF MATERIAL D  CONTENT OF BING  CONTENT	TRAILER #: DISPATCHER PHONE #: al facility: ESCRIBED IN PART 1 ABOVE." EBEST OF MY KNOWLEDGE AN / PM AM / PM AM / PM TIME OUT: Callon Test: the spassed all acceptances testing of this
- Disposal Facility Part 2 - Trans	TO BE COMPANY NAME: J ADDRESS: J	COMPLETED BY THE TRA	NSPORTER WHILE THE YARD #: DISPATCHER NAME: ed by the truck driver p IN THIS VESSEL SINCE DRIVEF VEN ON THIS MANIFEST IS ETED BY OWL LANDFIL DATE: NORM TESTING: (Less than 50 MCR) has receit	GENERATOR IS PRESENT  WHP #:  CONTENT OF BIN#:  CONTENT OF BING OF BIN#:  CONTENT OF BING OF MATERIAL D  CONTENT OF BING OF MATERIAL D  CONTENT OF BING OF MATERIAL D  CONTENT OF BING  CONTENT	TRAILER #: DISPATCHER PHONE #: al facility: ESCRIBED IN PART 1 ABOVE." EBESP OF MY KNOWLEDGE AM / PM AM / PM AM / PM TIME OUT: Gallon Test:
Received by OCD: 6/19/2023 8:51:23	AM Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	MICHELLE MULLINS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County		
---	--	------------------------------------	---	-----------------------------------	
Facility: CRI					
Product / Service		Quantity I	Units		
Contaminated Soil (RCRA Exemp	t)	12.00	) yards		
Generator Certification Statemen I hereby certify that according to the Re 1988 regulatory determination, the above	esource Conserv	vation and Recovery Act (RCRA) and	d the US Enviro	onmental Protection Agency's July	

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

Driver/ Agent Signature R360 Representative Signature

Customer Approval	
THIS IS NOT AN	
Approved By:	Date:

•

## APPENDIX E Site Characterization



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)		•				2=NE 3 st to lar	3=SW 4⊧ gest)	,	D83 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin Co	ounty	Q ( 64 1			Tws	Rng		x	Y	Distance	-	-	Water Columr
C 04601 POD1	CUB	LE	3	4 3	8 05	26S	35E	6517	10	3548919 🌍	2244			
CP 01305 POD1	СР	LE		1 4	31	25S	37E	6556	28	3551065 🌍	3589	420	230	190
										Avera	ge Depth to	Water:	230	feet
											Minimum	Depth:	230	feet
											Maximum	Depth:	230	feet
Record Count: 2														

## UTMNAD83 Radius Search (in meters):

Easting (X): 653758.12

Northing (Y): 3548000.8

Radius: 4000

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

## Re

Page 40 o
Dama

f 89

ceived by OCD: 6/19/2023 8:51:23 AM		Page 40
212C-MD-03073	LOG OF BORING DTW	Page 1 of 1
Project Name: Talco 9-26-35 Fed 3H		
Borehole LocationGPS Coordinates: 32.058730°, -103.370426°	Surface Elevation: 3166 ft	
Borehole Number: DTW Dia	ehole 8 Date Started: 5/24/2023 Date Finished	: 5/24/2023
YPE 3 (ppm) 3 (ppm) 3 (ppm) NTENT (%) (pcf) (pcf) (pcf) (pcf) (pcf) (pcf)	WATER LEVEL OBSERVATIONS         While Drilling       ✓ DRY ft       Upon Completion of Drilling       ✓ DI         Remarks:             MATERIAL DESCRIPTION       Ø       Ø       Ø       Ø         MATERIAL DESCRIPTION       Ø       Ø       Ø       Ø         MATERIAL DESCRIPTION       Ø       Ø       Ø       Ø         Material       SM- SAND: Light reddish brown, dry, fine-grained, weakly cemented       Ø       Ø         SM- SAND: Light reddish brown, dry, fine-grained, trace caliche nodules       Ø       Ø         SC- CLAYEY SAND: Light reddish brown, dry, very fine-grained, weakly cemented, trace caliche nodules       Ø       Ø         SM- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         SM- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         SP- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         Image: SAM- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         Image: SAM- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         Image: SAM- SAND: Light reddish brown, loose, dry, very fine-grained       Ø       Ø         Image: SAM- SAND: Light reddish brown, loose, dry, very fine-grained	REMARKS
Sampler Types:       Split Spoon       Acetate Liner       Operation Types:         Shelby       Vane Shear       Mud Rotary         Bulk Sample       Discrete Sample       Continuous         Grab Sample       Test Pit       Wash Rotary	Hand Auger       Notes:         Air Rotary       Surface elevation is an approximate value obtained Google Earth data.         Direct Push       Core Barrel	ed from

 Logger:
 Colton Bickerstaff
 Drilling Equipment: Air Rotary
 Driller:

 TALCO 9-26-35 FED 3H GP J 09-233 2:04:41 PM
 Differ Equipment: Air Rotary
 Driller:

Scarborough Drilling

## OCD Karst Potential Map



4/10/2023, 3:00:00 PM Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

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## OCD Waterbodies Map



4/10/2023, 2:58:34 PM

OSE Streams



Esri, HERE, Garmin, iPC, Maxar, NM OSE

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# OCD - Mineral and Surface Ownership



5/8/2023, 3:25:26 PM

Mineral Ownership

A-All minerals are owned by U.S.

Land Ownership

BLM



U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

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## APPENDIX F Analytical Data



April 25, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: TALCO 9-26-35 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 15:37.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (3'-4') (H231907-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/24/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	538	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	93.5	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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\*=Accredited Analyte

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (4'-5') (H231907-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/24/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	177	88.4	200	5.03	
DRO >C10-C28*	11.1	10.0	04/24/2023	ND	173	86.4	200	7.64	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (5'-6') (H231907-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/24/2023	ND	416	104	400	0.00	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	19.9	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (6'-7') (H231907-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (7'-8') (H231907-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	12.3	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 1 (8'-9') (H231907-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (3'-4') (H231907-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	16.4	2.00	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	11.1	2.00	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	57.7	6.00	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	85.2	12.0	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1890	100	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	13700	100	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	2870	100	04/24/2023	ND					
Surrogate: 1-Chlorooctane	244	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	301	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (4'-5') (H231907-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.97	2.00	04/24/2023	ND	1.86	92.9	2.00	4.22	
Toluene*	55.0	2.00	04/24/2023	ND	2.03	102	2.00	4.49	
Ethylbenzene*	35.1	2.00	04/24/2023	ND	2.03	102	2.00	4.10	
Total Xylenes*	204	6.00	04/24/2023	ND	6.32	105	6.00	4.30	
Total BTEX	299	12.0	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	154	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3950	100	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	14000	100	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	2670	100	04/24/2023	ND					
Surrogate: 1-Chlorooctane	342	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	271	% 49.1-14	8						

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Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (5'-6') (H231907-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.36	1.00	04/24/2023	ND	1.95	97.6	2.00	2.69	QM-07, QR-03
Toluene*	32.1	1.00	04/24/2023	ND	2.07	103	2.00	2.04	QM-07, QR-03
Ethylbenzene*	21.8	1.00	04/24/2023	ND	2.17	109	2.00	3.78	QM-07, QR-03
Total Xylenes*	123	3.00	04/24/2023	ND	6.69	111	6.00	5.01	QM-07, QR-03
Total BTEX	179	6.00	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	158	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4280	100	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	15600	100	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	3010	100	04/24/2023	ND					
Surrogate: 1-Chlorooctane	373	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	310	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (6'-7') (H231907-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.90	1.00	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	31.4	1.00	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	23.6	1.00	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	135	3.00	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	192	6.00	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	159	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3570	100	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	12400	100	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	2220	100	04/24/2023	ND					
Surrogate: 1-Chlorooctane	328	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	246	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (7'-8') (H231907-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.061	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	2.15	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	2.84	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	15.6	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	20.7	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	269	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	675	100	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	3120	100	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	526	100	04/24/2023	ND					
Surrogate: 1-Chlorooctane	138	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 2 (8'-9') (H231907-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	221	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	41.7	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 3 (0-1') (H231907-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	18.0	5.00	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	11.9	5.00	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	69.0	15.0	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	98.9	30.0	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2840	50.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	7970	50.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	1470	50.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	237	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	152	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 3 (1'-2') (H231907-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	1.20	0.050	04/25/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	1.38	0.050	04/25/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	7.81	0.150	04/25/2023	ND	6.69	111	6.00	5.01	
Total BTEX	10.4	0.300	04/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	218	% 71.5-13	4						
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	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	440	50.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	2550	50.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	461	50.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 3 (2'-3') (H231907-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.16	1.00	04/25/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	22.4	1.00	04/25/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	15.0	1.00	04/25/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	82.9	3.00	04/25/2023	ND	6.69	111	6.00	5.01	
Total BTEX	121	6.00	04/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	144	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1670	50.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	4760	50.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	864	50.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	236	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 3 (3'-4') (H231907-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.19	5.00	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	57.6	5.00	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	19.9	5.00	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	109	15.0	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	193	30.0	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4260	50.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	7670	50.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	1340	50.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	249	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 4 (3'-4') (H231907-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	238	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	49.8	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	78.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 4 (4'-5') (H231907-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	12.5	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 4 (5'-6') (H231907-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	19.7	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 4 (6'-7') (H231907-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	71.5	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	16.3	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 4 (7'-8') (H231907-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	13.3	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 5 (2'-3') (H231907-22)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	163	81.4	200	2.37	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	170	85.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 6 (0-1') (H231907-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 7 (0-1') (H231907-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 8 (0-1') (H231907-25)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 9 (0-1') (H231907-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

## Sample ID: HA - 10 (0-1') (H231907-27)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	<0.050	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager


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

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA - 11 (0-1') (H231907-28)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2023	ND	1.95	97.6	2.00	2.69	
Toluene*	0.055	0.050	04/24/2023	ND	2.07	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/24/2023	ND	2.17	109	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/24/2023	ND	6.69	111	6.00	5.01	
Total BTEX	<0.300	0.300	04/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2023	ND	400	100	400	4.08	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2023	ND	181	90.3	200	0.367	
DRO >C10-C28*	<10.0	10.0	04/24/2023	ND	156	78.0	200	0.142	
EXT DRO >C28-C36	<10.0	10.0	04/24/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



# **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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

ed by OCD: 6/19/2023 8:51:2				Page 7
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Page 31 of 33

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Page 33 of 33



May 31, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: TALCO 9-26-35 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/25/23 15:20.

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/24/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA-12 (0-1') (H232678-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	140 \$	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	0						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

### Sample ID: HA-2 / T-1 (9'-10') (H232678-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	67.7	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	104	48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA-2 / T-1 (10'-11') (H232678-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	34.5	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA-2 / T-1 (11'-12') (H232678-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	117 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA-2 / T-1 (12'-13') (H232678-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/31/2023	Sampling Type:	Soil
Project Name:	TALCO 9-26-35 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03073	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

# Sample ID: HA-2 / T-1 (13'-14') (H232678-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	7.80	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	8.59	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	7.50	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.42	107	6.00	8.24	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	199	99.6	200	4.19	
DRO >C10-C28*	<10.0	10.0	05/26/2023	ND	197	98.5	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

FORMO	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Nellinquistied by.		Relinquished By	PLEASE NOTE: Liability and event shall Cardinal be liabil affiliates or successors aris				6		6	~	0.1		H232678	Lab I.D.	Sampler Name:	<b>Project Location</b>	Project Name: T	Project #:	Phone #:	City: Austin	Address: 8911 C	Project Manager: Christian Llull	Company Name: Tetra Tech		
FORM.006 R 3 2 10/07/21	cle One) Bus - Other:	Ÿ		Relinquished By: Colton Bickerstaff	PEASE NOTE: Usably and Damages. Counted is bably and clerch exclose mendy for any dama wany weeker bable construct or to construct or to, any and the second the second or				6 HA-2/T-1 (13'-14')	HA-2/T-1 (12'-13')	4 HA-2/T-1 (11'-12')	3 HA-2/T-1 (10'-11')	HA-2/T-1 (9'-10')	(HA-12 (0-1')	Sample I.D.		Sampler Name: Colton Bickerstaff	Project Location: Lea County, New Mexico	Project Name: Talco 9-26-35 Flowline Release	212C-MD-03073 P	(512)565-0190		Address: 8911 Capital o Texas Hwy, Suite 2310	r: Christian Llull	: Tetra Tech	101 Éast Mai (575) 393-2	Laboratories
	Observed Temp. °C Corrected Temp. °C	Time:	Time; SZO	Date: 5/25/23	we remedy for any claim arising wheth including without limitation, busines ienvices hereunder by Cardinal, reg										.D.			00	lease	Project Owner:	Fox #:	State: TX	e 2310			101 Éast Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	<b>VAL</b> ories
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	(Initials)		d a	111	client for the analyses. All claims its subsidiaries, stated reasons or otherwise,				5/25/2023	5/25/2023	5/25/2023	5/25/2023	5/25/2023	5/24/2023	DATE	SAMPLING			Zip:		NAIL	Attn: Christian Llull	Company: Tetra Tech		BILL TO		
Correction Factor -0.5°C	Turnaround Time: Stand Rush: N/A, Standard TAT Thermometer ID #113		All Results are emailed.	Verbal Result:	s including trose for negligence and any other cause										TIME	LING											원
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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# APPENDIX G Seed Mixture Details

(27)

BLM Serial #:

Company Reference:

# 3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

\*Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	229979
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. COG has 90-days (December 18, 2023) to submit its appropriate or final closure report.	9/18/2023

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Action 229979