**Remediation Plan approved** with conditions - see page 24.





April 21, 2023

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

Re: Release Characterization and Remediation Work Plan

**ConocoPhillips** 

Zia Hills CR-1 Transfer Line Release Unit Letters E, Section 03, Township 26 South, and Range 31 East,

Lea County, New Mexico Incident ID NAPP2231554934

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess a release that occurred from a transfer line in the Zia Hills area, adjacent to CR-1. The release footprint is located inside Public Land Survey System (PLSS) Unit Letters E, Section 03, Township 26 South, and Range 31 East, Lea County, New Mexico. The release site coordinates are 32.074950°, -103.670752°. The Site location is shown on Figures 1 and 2.

#### **BACKGROUND**

According to the State of New Mexico Form C-141 Initial Report (Appendix A), the release was discovered on October 29, 2022. The cause of the release was noted as resulting from "3rd party potentially cut the line," and the responsible party at the time of the C-141 had not been identified. Approximately 249 barrels (bbls) of produced water were reported released, of which 20 bbls were recovered. These volumes are estimates. The cut line is owned by COP; therefore, COP submitted the Form C-141 Initial Report to meet reporting requirements. The New Mexico Oil Conservation District (NMOCD) received this initial Form C-141 on November 11, 2022, and subsequently assigned the release the Incident ID NAPP2231554934. On behalf of ConocoPhillips, Tetra Tech requested a 90-day extension on January 31, 2023 to complete assessment and associated reporting for the Release site. The Extension request was approved the same day. A copy of the regulatory correspondence is included in Appendix B.

#### SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is within a New Mexico oil and gas production area and 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 2.88 miles (4,641 meters) of the site with a depth to groundwater of 155 feet below ground surface (bgs). The site characterization data is included as Appendix C.

Tetra Tech

Release Characterization and Remediation Work Plan April 21, 2023

ConocoPhillips

#### **LAND OWNERSHIP**

The Site is located on land owned by the Bureau of Land Management (BLM). Following the release, a cultural survey within the release footprint and the surrounding vicinity was conducted by Goshawk Environmental Consulting. The area was negative for cultural resources. The BLM cleared the Site for remediation activities following a review of the survey.

#### REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used in attempt 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.

Due to the lack of groundwater data within 0.5 miles of the Site and in lieu of drilling to determine the depth to groundwater, the reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations will currently be applied to the release area. Thus, based on the site characterization and in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

However, if concentrations in soils below 4 feet bgs are found to exceed the reclamation requirements, COP will determine whether a depth-to-water (DTW) boring is necessary to establish RRALs based on depth to groundwater in accordance with Table I of 19.15.29.12 NMAC.

#### SITE VISIT SUMMARY

Tetra Tech personnel, on behalf of COP, visited the Zia Hills CR-1 Transfer Line Release area on November 1, 2022 to visually assess current site conditions and take photographs of the reported release area. Based on observations in the field and information provided by COP, the release extent consists of approximately 14,492 square feet of pastureland, largely in the vicinity of existing lay flat poly lines.

During the site visit, the presumed release point was identified and is located near the entrance to a Plains Facility along Orla Road. The release extent runs along a bar ditch in pastureland parallel to Orla Road (CR-1) and is approximately 0.28-miles in length. The width is variable but ranges from as wide as 30 feet to as narrow as 6 feet in some areas. Tetra Tech personnel observed multiple areas of soil staining running along the release flow path and various areas with evidence of pooling fluids throughout the extent. There are multiple rights-of-way located to the west and east of the release extent and three pipeline rights-of-way running perpendicular through the middle of the release footprint. Landowner fencing is located adjacent to the release extent that runs north to south along Orla Road. A semi-permanent t-post fence owned by Plains Pipeline runs along the north side of the release extent. A temporary fence, composed of t-posts and cattle panel, was placed by operations on the east and south sides of the release extent.

Numerous surface lines, subsurface gas lines, subsurface water lines, and subsurface oil lines were noted as running along Orla Road and a right-of-way to the east. A Mewbourne Oil Company subsurface line and a DCP subsurface gas line were also identified.

Prior to the site visit, COP representatives visited the site on October 30, 2022, and took photographs of the release area. These photographs were provided to Tetra Tech and depict the cut lines, subsurface lines, pooling areas, surface staining and the extent of the release. Photographic documentation of current

Release Characterization and Remediation Work Plan April 21, 2023

ConocoPhillips

site conditions during the October 2022 and November 2022 is included as Appendix D. The approximate release extent is presented in Figure 3.

#### SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area in March 2023. Soil samples were collected from fifteen (15) locations within and around the release to evaluate the vertical and horizontal extent of the release. AH-1 and AH-6 were installed via hand auger within the release extent to a maximum depth of 1.5 feet bgs. AH-7 through AH-14 were installed via hand auger around the perimeter of the release footprint to a depth of 1 foot bgs. Due to a hard, cemented layer below ground surface, refusal was met at 1.5' at sample locations AH-1 through AH-6. In order to obtain vertical delineation within the release extent, one (1) trench (T-1) was completed with heavy equipment to a depth of 2 feet bgs near the release point in the vicinity of boring location AH-1. The boring locations and trench location are shown on Figure 3A and Figure 3B.

A total of nineteen (19) 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 E.

Results from the March 2023 soil sampling events are summarized in Table 1. Analytical results associated with borings AH-1 through AH-4 were above reclamation requirements for TPH and/or chloride in soils. All other analytical results from the March 2023 sampling were below reclamation requirements. Vertical delineation was achieved at the AH-1/T-1 location. Horizontal delineation was achieved.

#### **REMEDIATION WORK PLAN**

Based on the analytical results from the assessment, impacted material within the release extent is proposed to be removed to depths indicated in Figure 4A and Figure 4B. Impacted soils will be excavated to a maximum depth of 1.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements for soils above 4 feet. Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods. If rock refusal is encountered, hydro-excavation methods will be used to clean contaminated soil off rock. After the rock surface is clean, if staining is still observed, microbial strains will be applied to the rock surface to digest remaining organics and hydrocarbons, if present.

As stated previously, COP will drill a DTW boring to establish Site RRALs based on depth to groundwater if chloride, TPH and/or BTEX concentrations in soils are found to exceed reclamation requirements below 4 feet bgs. Once Site RRALs have been established in accordance with Table I of 19.15.29.12 NMAC, soil below 4 feet bgs with concentrations above these Site RRALs will be excavated utilizing the methods described above.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. The estimated volume of material to be remediated is approximately 600 cubic yards.

#### **ALTERNATIVE 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 7. Eleven (11) confirmation floor samples and twenty-four (24) confirmation

ConocoPhillips

sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 13,700 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 TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0 or equivalent). Once results are received, the excavation will then be backfilled with clean material to pre-release surface grade.

#### **REVEGETATION PLAN**

Once acceptable confirmation sample results are received the excavation will then be backfilled with clean material to surface grade. The backfilled areas within the off-pad pasture will be seeded in the first favorable growing season to aid in revegetation. Based on the location of the Site, the 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 Bureau of Land Management (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 F.

#### 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) 217-7254 or Christian at (512) 338-2861.

Sincerely,

Tetra Tech. Inc.

Ryan C Dickerson

Project Manager

Christian M. Llull, P.G.

**Program Manager** 

CC

Mr. Sam Widmer, RMR - ConocoPhillips

Ms. Shelly Taylor - Bureau of Land Management

Release Characterization and Remediation Work Plan April 21, 2023

ConocoPhillips

#### **List of Attachments**

#### Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3A – Approximate Release Extent and Site Assessment

Figure 3B – Approximate Release Extent and Site Assessment

Figure 4A – Proposed Remediation Extent

Figure 4B – Proposed Remediation Extent

Figure 5A – Alternative Confirmation Sampling Plan

Figure 5B – Alternative Confirmation Sampling Plan

#### Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

#### Appendices:

Appendix A – C-141 Form

Appendix B – Regulatory Correspondence

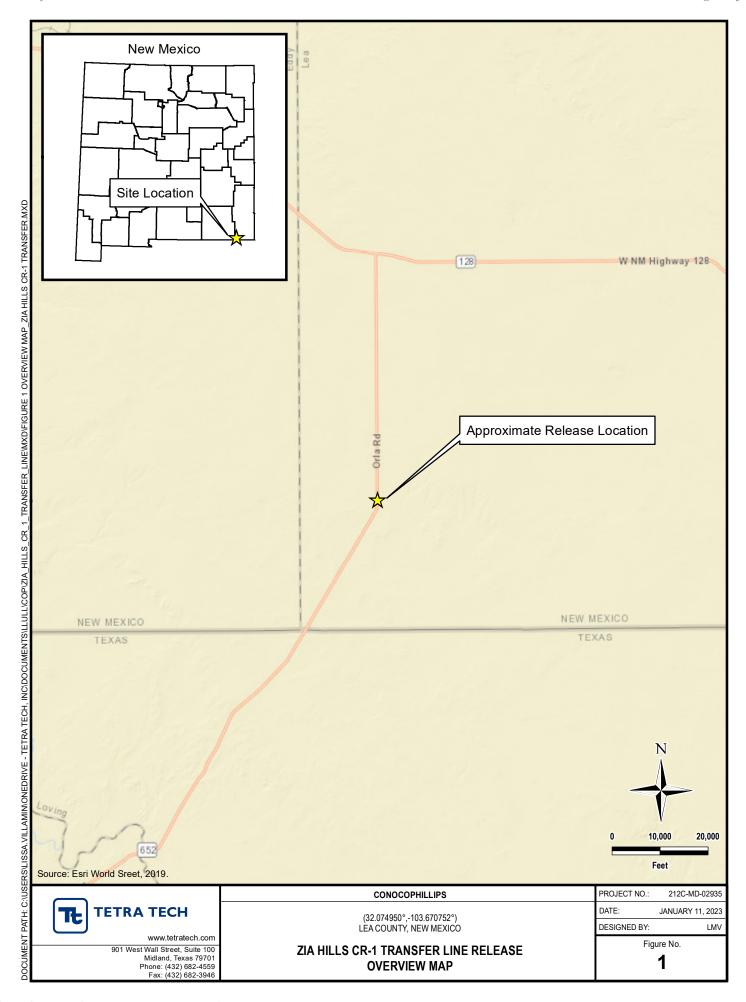
Appendix C - Site Characterization Data

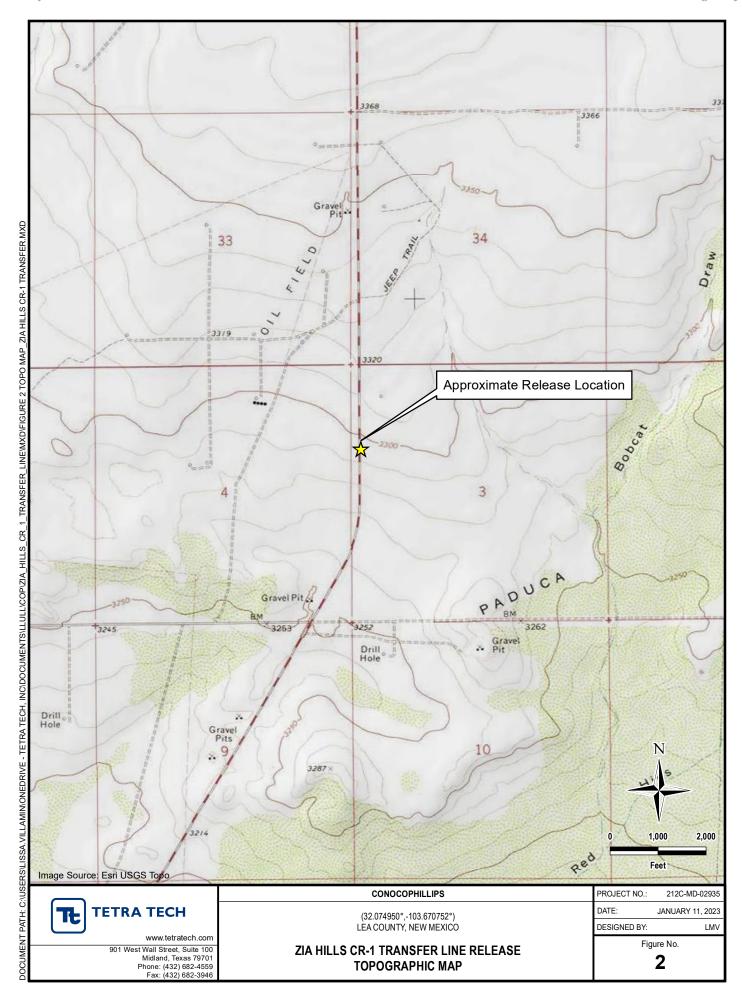
Appendix D – Photographic Documentation

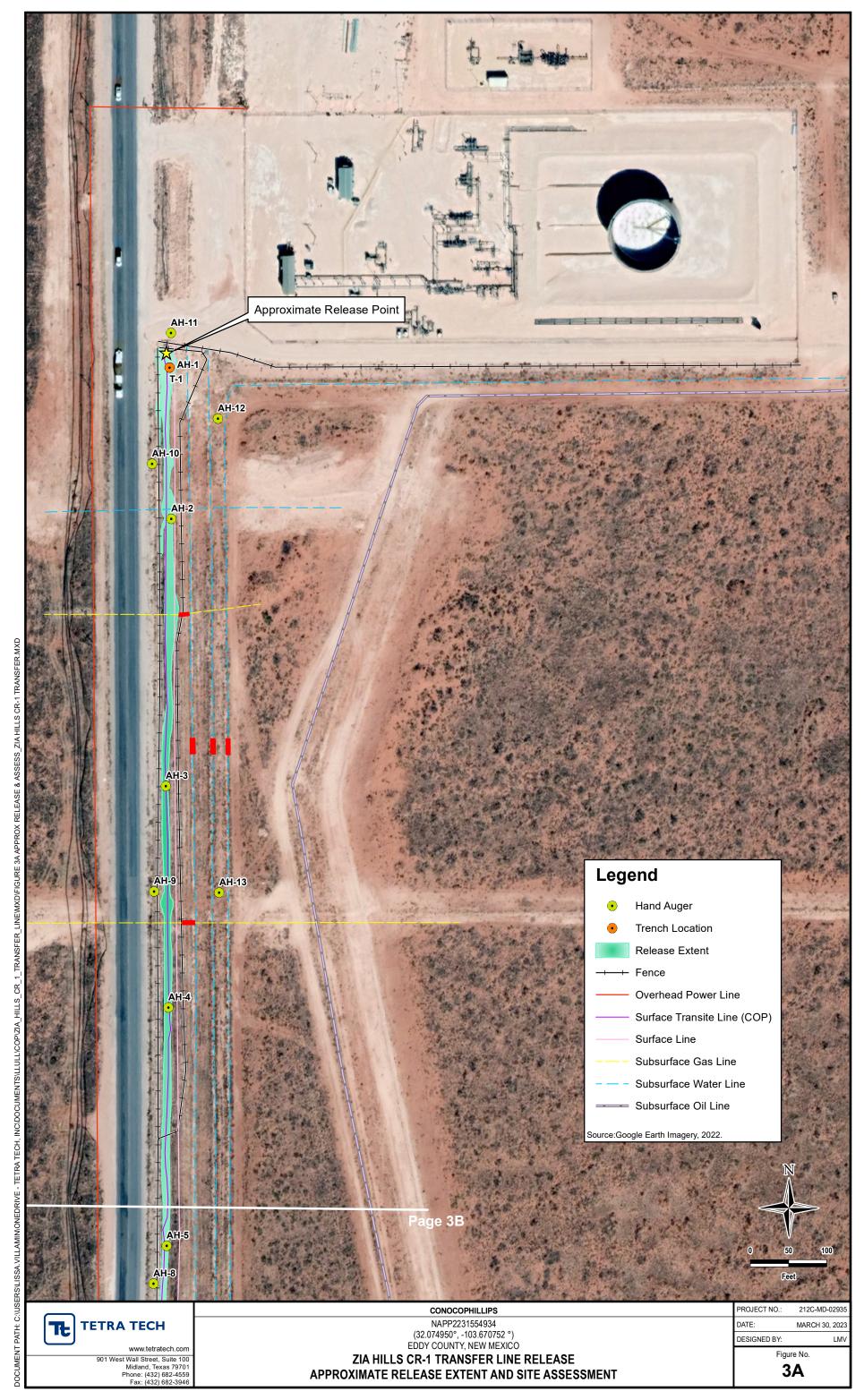
Appendix E – Laboratory Analytical Data

Appendix F - BLM Seed Mixture Details

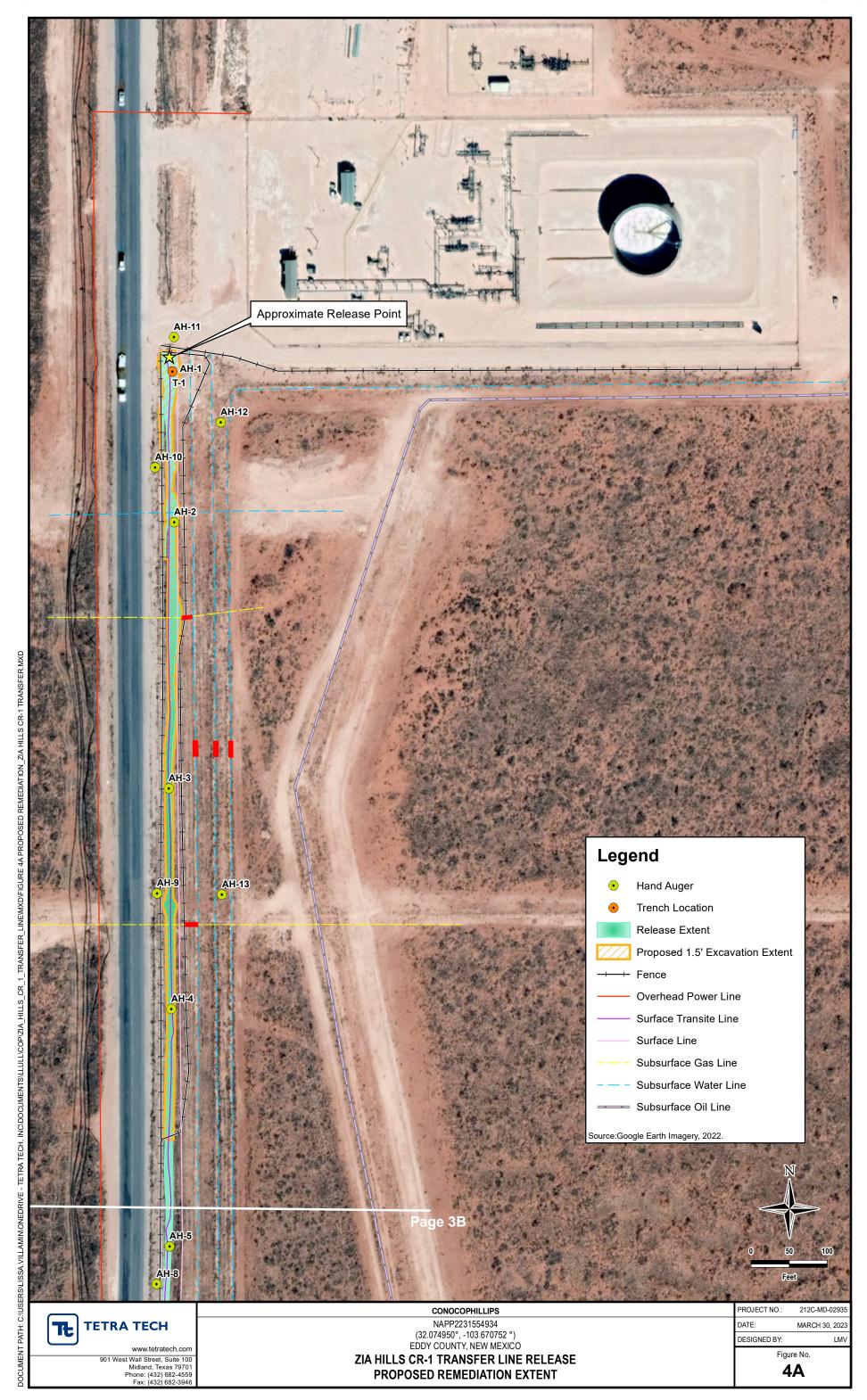
### **FIGURES**



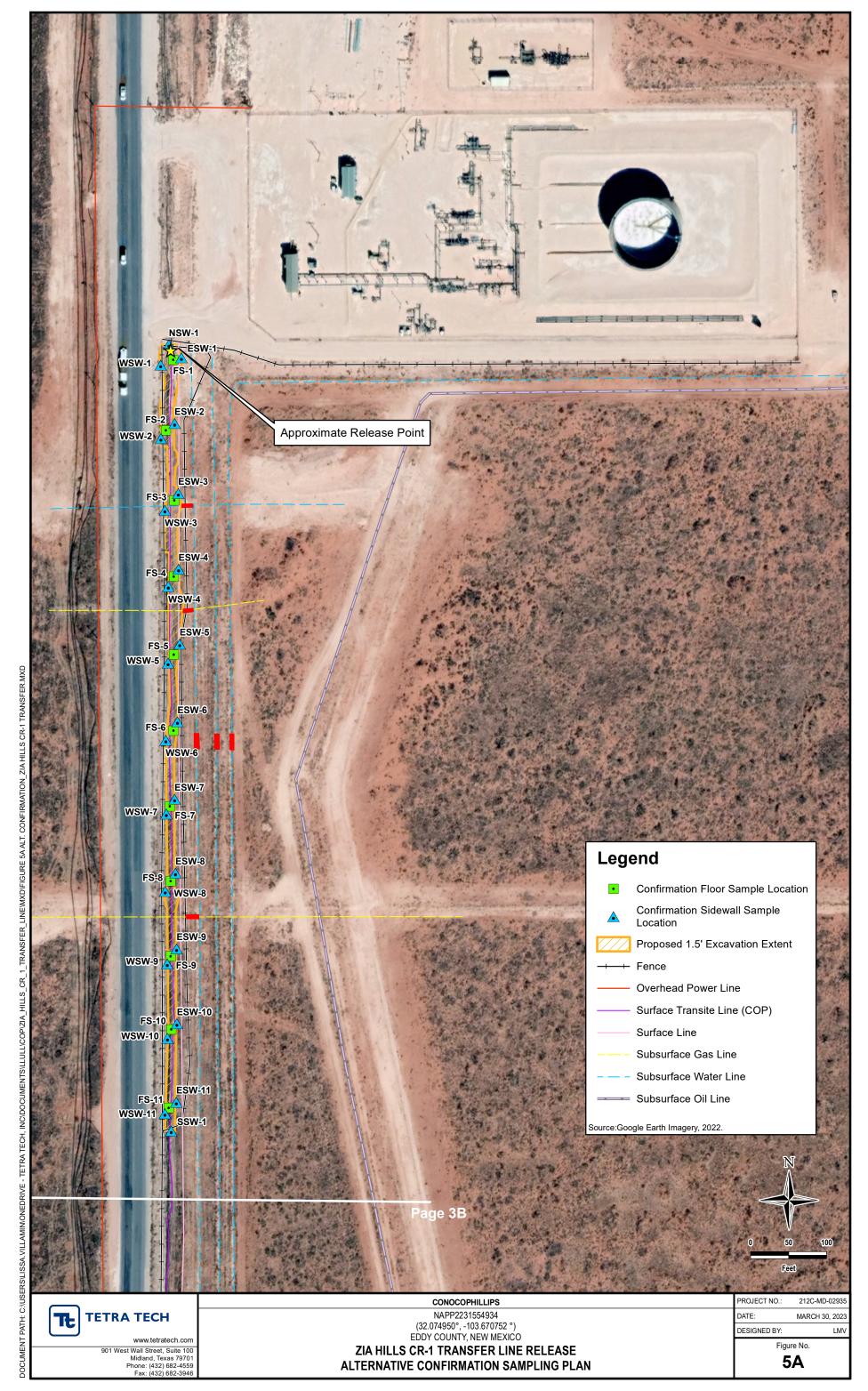














### **TABLES**

Received by OCD: 4/21/2023 2:35:01 PM

# TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- NAPP2231554934 CONOCOPHILLIPS ZIA HILLS CR-1 TRANSFER LINE RELEASE LEA COUNTY, NM

10 15 20 12 N	MAC Closure Criteria for	Soile Immediad by a D	alaasa / < 50 ft).	Chlorid	es <sup>1</sup>					BTEX									TI	PH <sup>3</sup>														
19.15.29.12 NI	WIAC Closure Criteria for	Soils impacted by a Ki	, ,	< 600 mg	g/kg	< 10 mg	< 10 mg/kg																			< 50 mg	/kg							< 100 mg/kg
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	Chlorie	de	Benzei	ne	Toluene		Toluene Ethylbenzer		Total Xylenes		Total BTEX		GRO		DRO		EXT D		Total TPH (GRO+DRO+EXT DRO)												
Sample 1D	Sample Date		Chlorides				1									C <sub>6</sub> - C <sub>1</sub>		> C <sub>10</sub> -		> C <sub>28</sub> -														
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg												
AH-1	3/13/2023	0-1	4,070 4,330	2,300		0.099		0.211		0.262		2.49		3.06		594		9,950		1,620		12,164												
		1-1.5		2,330		<0.050		0.162		0.127		1.71		2.00		439		15,000		2,870		18,309												
AH-2	3/13/2023	0-1	1,100	752		<0.050		0.495		0.410		11.3		12.2		714		23,500		4,060		28,274												
		1-1.5	1,400	768		<0.050		0.082		0.116		1.49		1.68		194		11,300		2,190		13,684												
AH-3	3/13/2023	0-1	1,120	11,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		4,210		1,060		5,270												
AH-4	2/42/2022	0-1	1,100	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		259		72.7		331.7												
AH-4	3/13/2023	1-1.5	1,100	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		278		58.6		336.6												
		0-1	44	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		=												
AH-5	3/13/2023	1-1.5	49	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-6	3/13/2023	0-1	825	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-7	3/13/2023	0-1	281	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-8	3/21/2023	0-1	-	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		=												
AH-9	3/13/2023	0-1	401	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-10	3/13/2023	0-1	365	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		=												
AH-11	3/13/2023	0-1	298	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		=												
AH-12	3/13/2023	0-1	341	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-13	3/13/2023	0-1	323	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												
AH-14	3/13/2023	0-1	367	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		=												
T-1	3/23/2023	1.5-2	- 1	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-												

NOTES:

ft. Feet bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

Method 8021B
 Method 8015M

Bold and italicized values indicate exceedance of Reclamation Requirements for soils above 4 feet bgs outside of oil and gas production.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

## **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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	NAPP2231554934
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

Responsible Party	ConocoPhillips Company	OGRID	217817			
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043			
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2231554934			
Contact mailing address	2208 West Main St, Artesia, NM 88210					

Location of Release Source							
Latitude	32.074	946		Longitude1	03.670778		
			(NAD 83 in decimal de	grees to 5 decimal place	<i>s</i> )		
Site Name		County Road	1, PW Transfer line	Site Type	Flow Line		
Date Release	Date Release Discovered October 29th, 2022						
Unit Letter	Section	Township	Range	County			
E	03	26S	32E	Lea			
Surface Owne	r: State	■ Federal □ Tr	ibal  Private ( <i>Name:</i>			)	
201100000000	<u> </u>		I I I I I I I I I I I I I I I I I I I			/	

#### Nature and Volume of Release

Crude Oil	(s) Released (Select all that apply and attach calculations or specific Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 249	Volume Recovered (bbls) 20
	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		

3rd Party potentially cut the line. The responsible party at the time of this C-141 has not yet been identified COP is working with multiple groups to help identify the responsible party. COP is submitting the C-141 at this time to meet the two week initial report requirement, since some of the release constituents were released from the COP line that was cut.

Received by OCD: 4/21/2023 2:35:01 PM1 State of New Mexico Page 2 Oil Conservation Division Page 19 of 84

Incident ID	NAPP2231554934
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Release exceeded 25 bbls of P	roduced Water
19.13.29.7(A) NWIAC:		
☐ Yes ☐ No		
	_	hom? When and by what means (phone, email, etc)?
		. By Charles Beauvais and Kalei Jennings to the Robert , and EMNRD-OCD-Disctrict1spills@emnrd.nm.gov via email.
		, andgogogo
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment
	-	dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed ar	•
	d above have <u>not</u> been undertaken, explain	
		·
		remediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release not	ifications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of		responsibility for compliance with any other federal, state, or local laws
and/or regulations.	N N Esparza	Environmental Technician
Printed Name. Dilliai	iy N. Espaiza	Title: Environmental Technician
Signature:	ny N. Esparza	Date: 11/11/2022 Telephone: (432) 221-0398
email: Brittany.Espar	za@ConocoPhillips.com	Telephone: (432) 221-0398
OCD Only		
OCD Only		44/44/0000
Received by:Joce	lyn Harimon	Date:11/14/2022

	L48 Spill Volume Estimate Form - Fill In Gray Cells										
Facility Name & Well Number(s):				CR1 PW Transfer Line Release				Release Discovery Date & Time: 10/29/2022 Found 08:00 AM			
	Provide any known details about the event: Water transfer line was cut by 3rd party resulting in release. Unknown when line was cut and how much fluid was pumped in the line Ops data provided indicates line produces between 200 to 500 bbls per day. Cam to Plan Mapping.										
				Recovered Volume (bbl.) (if available, not included in volume calculations)	Deter	hod of mination odown)	Release Type (dropdown):		> 1/2" of Rain in Last 24 Hours (dropdown):		% Rainwater Recovered (not included in volume calculations, informational):
BU:	Permian ~	Asset Area:	DBE - Asset Avg.	20	Field Me	asurement ~	Produce	Produced Water ~		lo ~	0%
		Known	Nolume (dropdown):	No ~							
	Known Area (dropdown)		Yes	Mapped Area (sq. ft.)	Average Depth (in.)	On/Off Pad		Soil Spilled-Fluid Saturation	Total Estimated Volume of Spill (bbl.)		
				~	21000	7	On-Pad ✓		10.50%	228.95	i ,

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 158250

#### **CONDITIONS**

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	158250
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/14/2022

State of New Mexico Incident ID

Incident ID	NAPP2231554934
District RP	
Facility ID	
Application ID	

Page 22 of 84

#### 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?	N/A (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?					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes V No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil				
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 well 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	ls.				
<ul> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>					

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.

Received by OCD: 4/21/2023 2:35:01 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 23 of	84
Incident ID	NAPP2231554934	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are required to report and/or file certain release not	ifications and perform corrective actions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the C	OCD does not relieve the operator of liability should their operations have
failed to adequately investigate and remediate contamination that pose a three	eat 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.	
Sam Widmer	Duincinel Ducanam Managan
Printed Name:	Principal Program Manager Title:
DocuSigned by:	Date: Apr-21-2023
Signature: Sam Widner	Date:
5454CA5BAD33498	201 206 5200
email: Sam.Widmer@conocophillips.com	Telephone:281-206-5298
Sam.wramer@conocopitritips.com	
OCD Only	
<del></del>	
Received by: Jocelyn Harimon	Date: 04/21/2023
Received by. Jocelyn Hannon	Date: 04/21/2020

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

Page 24 of 84

Incident ID	NAPP2231554934
District RP	
Facility ID	
Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility econstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD ales 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 ability 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 esponsibility for compliance with any other federal, state, or local laws and/or regulations.  Title:    Principal Program Manager   Date: Apr-21-2023
OCD Only  Leceived by: Jocelyn Harimon Date: 04/21/2023
Approved
ignature: Nelson Velez Date: 07/10/2023

#### Remediation Plan is approved on the following conditions;

- 1. OCD pre-approval will be required for any application of a microbial strain to any visually impacted rocks if encountered. Material data sheet of the microbial strain will need to be provided.
- 2. Variance to increase sampling area size for each 5 point composite sample per 400 square feet is approved.
- 3. ConocoPhillips has 90-days (Remediation Due date: 10/10/2023) to submit a final closure report or time extension request along with furnishing an update-to-date status of the remediation being conducted.

Received by OCD: 4/21/2023 2:35:01 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID NAPP2231554934
District RP
Facility ID
Application ID

#### Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## **APPENDIX B Regulatory Correspondence**

From: Nobui, Jennifer, EMNRD

To: <u>Llull, Christian</u>

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Subject: RE: [EXTERNAL] (Extension Request 1) NAPP2231554934 - Zia Hills - CR-1 Transfer Line Release

**Date:** Tuesday, January 31, 2023 5:05:24 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png

You don't often get email from jennifer.nobui@emnrd.nm.gov. Learn why this is important

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

#### Hello Christian

OCD approves your request for a 90-day extension to 04/27/2023 to submit a remediation plan. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Llull, Christian < Christian.Llull@tetratech.com>

Sent: Tuesday, January 31, 2023 3:44 PM

**To:** Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>

Subject: [EXTERNAL] (Extension Request 1) NAPP2231554934 - Zia Hills - CR-1 Transfer Line Release

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

To whom it may concern:

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until April 27, 2023) to complete the release characterization and associated reporting for the Zia Hills - CR-1 Transfer Line Release site (NAPP2231554934).

According to the State of New Mexico Form C-141 Initial Report, the release was discovered on October 29, 2022. The cause of the release was noted as resulting from a "3rd party potentially cut the line," and the responsible party at the time of the C-141 had not been identified. Approximately 249 bbls of produced water were reported released, of which 20 bbls were recovered. These volumes are estimates. The New Mexico Oil Conservation District (NMOCD) received this initial Form C-141 on November 11, 2022, and subsequently assigned the release the Incident ID NAPP2231554934.

From investigation, an unidentified operator was indeed cutting other non-COP surface flowlines in the vicinity of the water transfer line and inadvertently severed the COP line. ConocoPhillips has taken measures to pinpoint the 3<sup>rd</sup> party but has been unsuccessful in identifying the operator. COP is willing to conduct release assessment at the project site, however additional time is required to complete the assessment activities.

The requested 90-day extension will allow for release characterization to be conducted at the Site. Once the sampling data is collected, tabulated, and evaluated, a remediation work plan will be submitted to the NMOCD.

Thank you in advance.

#### Christian Llull, P.G. | Program Manager

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

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

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

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	Please consider the environment before printing. Read mor	е
?		

## **APPENDIX C Site Characterization Data**



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD Sub-		Q (	a Q							Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column
C 04549 POD1	CUB	LE	1	1 1	11	26S	32E	627111	3548316 🌕	2043	0	0	0
C 04485 POD1	CUB	LE	4	1 1	12	26S	32E	629039	3548125 🌍	3842	55		
C 04209 POD1	CUB	LE	2	3 3	06	26S	32E	620903	3548619 🌍	4641	360	155	205
C 04209 POD2	С	LE	2	3 3	06	26S	32E	620818	3548657 🌍	4718	340	155	185
C 03829 POD1	CUB	LE	3	3 1	06	26S	32E	620628	3549186 🌍	4840	646	350	296
C 03554 POD1	CUB	ED	2	1 4	01	26S	31E	620547	3549148 🌍	4923	630	300	330

Average Depth to Water: 192 feet

Minimum Depth: 0 feet

Maximum Depth: 350 feet

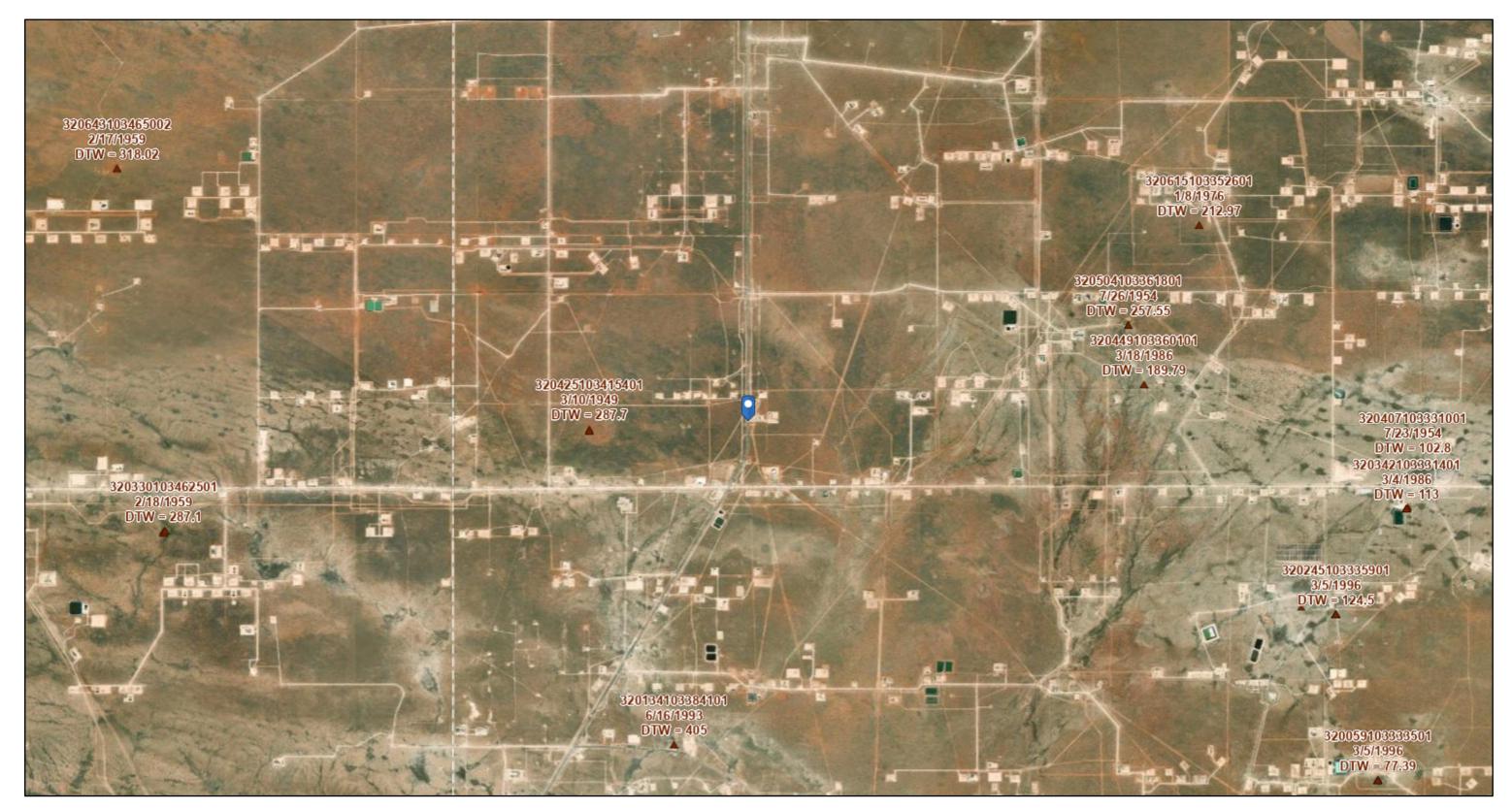
**Record Count: 6** 

UTMNAD83 Radius Search (in meters):

Easting (X): 625457.28 Northing (Y): 3549516.27 Radius: 5000

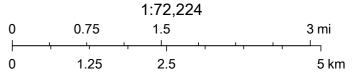
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

### **USGS** Groundwater Wells



1/19/2023, 8:20:24 AM

USGS Historical GW Wells



Esri, HERE, Garmin, Earthstar Geographics, USGS

### OCD Karst Potential Map

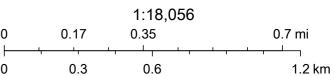


1/19/2023, 8:17:00 AM

Karst Occurrence Potential

Medium

Low



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar

### OCD Waterbodies Map



1/19/2023, 8:13:23 AM

**OSE Streams** 

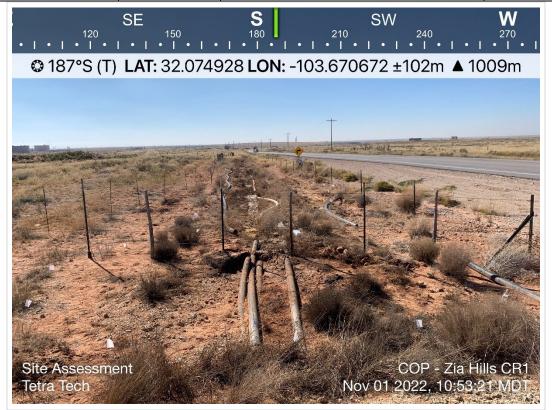
1:9,028 0 0.07 0.15 0.3 mi 0 0.15 0.3 0.6 km

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

## APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north-northwest of approximate release point.  Northern point of release with accessibility if southern point is not accessible.	1
212C-MD-02935	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of approximate release point. View of surface lines with down gradient slope. Staining is apparent.	2
212C-MD-02935	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of release. Large amount	3
212C-MD-02935	SITE NAME	Zia Hills CR-1 Transfer Line Release	10/30/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south-southeast moving south of release. Surface lines are visibly damaged with staining and pooling.	4
212C-MD-02935	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View north-northeast. Large amount of staining visible. Green panel accessibility to the east.	5	
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022	



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south-southeast. Green panel accessibility included in a large portion of the fence line. DCP gas line signage.	6
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View east of DCP gas line signage. Line will need to be padded for entrance to the northern portion of release extent.	7
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south-southeast. Surface lines visible with large amounts staining and erosion visible.	8	
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022	



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north of southern portion of release extent. Large amounts of pooling is visible. Green panel accessibility no longer visible.	9
212C-MD-02935	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south-southwest of surface lines continuing south. Temporary fence line ends and connects to fence line on main road	10
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south of 3 parallel surface lines. Release extent continues south to the right of the 3 surface lines towards the fence.	11
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south-southeast. Southern quadrant of release extent. Reduction in staining and pooling. High accessibility.	12
	SITE NAME	Zia Hills CR-1 Transfer Line Release	11/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02935	DESCRIPTION	View south of surface lines inside release extent. Most significant coordinates of staining.	13
	SITE NAME	Zia Hills CR-1 Transfer Line Release	10/30/2022

# **APPENDIX E Laboratory Analytical Data**



March 23, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: ZIA HILLS CR-1 TRANSFER LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/14/23 16:39.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keene

Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935 Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 1 (0-1')	H231172-01	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 1 (1-1.5')	H231172-02	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 2 (0-1')	H231172-03	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 2 (1-1.5')	H231172-04	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 3 (0-1')	H231172-05	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 4 (0-1')	H231172-06	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 4 (1-1.5')	H231172-07	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 5 (0-1')	H231172-08	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 5 (1-1.5')	H231172-09	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 6 (0-1')	H231172-10	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 7 (0-1')	H231172-11	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 9 (0-1')	H231172-13	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 10 (0-1')	H231172-14	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 11 (0-1')	H231172-15	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 12 (0-1')	H231172-16	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 13 (0-1')	H231172-17	Soil	13-Mar-23 00:00	14-Mar-23 16:39
AH - 14 (0-1')	H231172-18	Soil	13-Mar-23 00:00	14-Mar-23 16:39

03/23/23 - Client changed the sample depths on -02, -04, -07 and -09 (see COC). This is the revised report and will replace the one sent on 03/20/23.

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

23-Mar-23 18:29



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

# Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 1 (0-1') H231172-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	2300		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										S-04
Benzene*	0.099		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	0.211		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	0.262		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	2.49		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	3.06		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		152 %	71.5	-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by C	GC FID									S-04
GRO C6-C10*	594		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
DRO >C10-C28*	9950		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	1620		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			139 %	48.2	-134	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			249 %	49.1	-148	3031507	MS	15-Mar-23	8015B	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935 Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 1 (1-1.5')

H231172-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	2330		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	0.162		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	0.127		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	1.71		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	2.00		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)	·	110 %	71.5	-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									S-06
GRO C6-C10*	439		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
DRO >C10-C28*	15000		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
EXT DRO >C28-C36	2870		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctane			177 %	48.2	-134	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			428 %	49.1	-148	3031507	MS	16-Mar-23	8015B	

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946 Reported: 23-Mar-23 18:29

AH - 2 (0-1') H231172-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	752		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	0.495		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	0.410		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	11.3		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	12.2		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5	-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by GC	FID									S-06
GRO C6-C10*	714		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
DRO >C10-C28*	23500		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
EXT DRO >C28-C36	4060		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctane			281 %	48.2	-134	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			694 %	49.1	-148	3031507	MS	16-Mar-23	8015B	

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Celey D. Keine

23-Mar-23 18:29



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

# Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 2 (1-1.5') H231172-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	768		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	0.082		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	0.116		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	1.49		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	1.68		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	))		107 %	71.5	-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by C	GC FID									S-06_
GRO C6-C10*	194		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
DRO >C10-C28*	11300		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
EXT DRO >C28-C36	2190		100	mg/kg	10	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctane			134 %	48.2	-134	3031507	MS	16-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			367 %	49.1	-148	3031507	MS	16-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 3 (0-1') H231172-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	11000		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PI	ID)		104 %	71.5	i-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									S-04_
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
DRO >C10-C28*	4210		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	1060		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	2-134	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			170 %	49.1	-148	3031507	MS	15-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 4 (0-1')

H231172-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	368		16.0	mg/kg	4	3031517	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031504	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		107 %	71.5	-134	3031504	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
DRO >C10-C28*	259		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	72.7		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			125 %	49.1	-148	3031507	MS	15-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

 $901\ \text{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 4 (1-1.5')

H231172-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	QM-07
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			133 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
DRO >C10-C28*	278		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	58.6		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	-134	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			122 %	49.1	-148	3031507	MS	15-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 5 (0-1') H231172-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3032025	GM	20-Mar-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031717	JH/	17-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031717	JH/	17-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031717	JH/	17-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031717	JH/	17-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031717	JH/	17-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		103 %	71.5	-134	3031717	JH/	17-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031715	MS	17-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031715	MS	17-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031715	MS	17-Mar-23	8015B	
Surrogate: 1-Chlorooctane			106 %	48.2	-134	3031715	MS	17-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			118 %	49.1	-148	3031715	MS	17-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 5 (1-1.5')

H231172-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pli	D)		126 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane		·	101 %	48.2	-134	3031507	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			117 %	49.1	-148	3031507	MS	15-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 6 (0-1') H231172-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			128 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			116 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			124 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

**AH - 7** (0-1')

H231172-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		123 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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Celey D. Keine

23-Mar-23 18:29



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

# Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 9 (0-1') H231172-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		128 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 10 (0-1') H231172-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			127 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			113 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			118 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 11 (0-1')

H231172-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 12 (0-1')

H231172-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		121 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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23-Mar-23 18:29



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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

AH - 13 (0-1')

H231172-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		116 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			105 %	48.2-	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

AH - 14 (0-1')

H231172-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3031518	GM	15-Mar-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3031505	JH/	16-Mar-23	8021B	
Surrogate: 4-Bromofluorobenzene (Pi	ID)		116 %	71.5	-134	3031505	JH/	16-Mar-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctane			92.7 %	48.2	-134	3031509	MS	15-Mar-23	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	49.1	-148	3031509	MS	15-Mar-23	8015B	

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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

# **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Fiiuit	Units	Level	Resuit	70KEC	LIIIIIIS	KrD	LIIIII	notes
Batch 3031517 - 1:4 DI Water										
Blank (3031517-BLK1)				Prepared &	ե Analyzed:	15-Mar-23				
Chloride	ND	16.0	mg/kg							
LCS (3031517-BS1)				Prepared &	k Analyzed:	15-Mar-23				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3031517-BSD1)				Prepared &	k Analyzed:	15-Mar-23				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 3031518 - 1:4 DI Water										
Blank (3031518-BLK1)				Prepared &	k Analyzed:	15-Mar-23				
Chloride	ND	16.0	mg/kg							
LCS (3031518-BS1)				Prepared &	k Analyzed:	15-Mar-23				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3031518-BSD1)				Prepared &	analyzed:	15-Mar-23				
Chloride	400	16.0	mg/kg	400	-	100	80-120	0.00	20	
Batch 3032025 - 1:4 DI Water										
Blank (3032025-BLK1)				Prepared &	k Analyzed:	20-Mar-23				
Chloride	ND	16.0	mg/kg							
LCS (3032025-BS1)				Prepared &	k Analyzed:	20-Mar-23				
Chloride	432	16.0	mg/kg	400		108	80-120	<u> </u>		<u> </u>

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# Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 3032025 - 1:4 DI Water

LCS Dup (3032025-BSD1)				Prepared & Analyzed: 2	20-Mar-23			
Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20

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%REC

Limits

RPD

# Analytical Results For:

TETRA TECH

Analyte

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Spike

Level

Source

Result

%REC

959

71 5-134

Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946 Reported: 23-Mar-23 18:29

RPD

Limit

Notes

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

0.0479

Blank (3031504-BLK1)				Prepared & Analy	yzed: 15-Mar-2	3			
Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500	105	71.5-134			
LCS (3031504-BS1)				Prepared & Anal	yzed: 15-Mar-2	3			
Benzene	2.04	0.050	mg/kg	2.00	102	81.4-118			
Toluene	2.05	0.050	mg/kg	2.00	103	88.7-121			
Ethylbenzene	2.02	0.050	mg/kg	2.00	101	86.1-120			
m,p-Xylene	4.14	0.100	mg/kg	4.00	104	88.2-124			
o-Xylene	2.02	0.050	mg/kg	2.00	101	84.9-118			
Total Xylenes	6.16	0.150	mg/kg	6.00	103	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500	97.7	71.5-134			
LCS Dup (3031504-BSD1)				Prepared & Analy	yzed: 15-Mar-2	3			
Benzene	2.02	0.050	mg/kg	2.00	101	81.4-118	1.08	15.8	
Toluene	2.03	0.050	mg/kg	2.00	102	88.7-121	1.01	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00	100	86.1-120	0.571	16	
m,p-Xylene	4.09	0.100	mg/kg	4.00	102	88.2-124	1.10	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00	98.6	84.9-118	2.14	16.7	
Total Xylenes	6.07	0.150	mg/kg	6.00	101	87.3-122	1.44	16.3	

# Batch 3031505 - Volatiles

Surrogate: 4-Bromofluorobenzene (PID)

Blank (3031505-BLK1)			Prepared: 15-Mar-23 Analyzed: 16-Mar-23
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

mg/kg

0.0500

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

# Analytical Results For:

**TETRA TECH** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Source

Reported: 23-Mar-23 18:29

RPD

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3031505 - Volatiles										
Blank (3031505-BLK1)				Prepared: 1	5-Mar-23 A	Analyzed: 1	6-Mar-23			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0655		mg/kg	0.0500		131	71.5-134			
LCS (3031505-BS1)				Prepared: 1	5-Mar-23 A	Analyzed: 1	6-Mar-23			
Benzene	1.77	0.050	mg/kg	2.00		88.7	81.4-118			
Toluene	1.77	0.050	mg/kg	2.00		88.7	88.7-121			
Ethylbenzene	1.80	0.050	mg/kg	2.00		90.2	86.1-120			
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.5	88.2-124			
o-Xylene	1.80	0.050	mg/kg	2.00		90.1	84.9-118			
Total Xylenes	5.66	0.150	mg/kg	6.00		94.4	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0656		mg/kg	0.0500		131	71.5-134			
LCS Dup (3031505-BSD1)				Prepared: 1	5-Mar-23 A	Analyzed: 1	6-Mar-23			
Benzene	2.18	0.050	mg/kg	2.00		109	81.4-118	20.3	15.8	QR-0
Toluene	2.13	0.050	mg/kg	2.00		107	88.7-121	18.4	15.9	QR-0
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	86.1-120	17.5	16	QR-0
m,p-Xylene	4.59	0.100	mg/kg	4.00		115	88.2-124	17.4	16.2	QR-0
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118	16.7	16.7	
Total Xylenes	6.72	0.150	mg/kg	6.00		112	87.3-122	17.1	16.3	QR-0
Surrogate: 4-Bromofluorobenzene (PID)	0.0635		mg/kg	0.0500		127	71.5-134			

# Batch 3031717 - Volatiles

Blank (3031717-BLK1)				Prepared & Analyzed: 17-Mar-23	
Benzene	ND	0.050	mg/kg		
Toluene	ND	0.050	mg/kg		
Ethylbenzene	ND	0.050	mg/kg		
Total Xylenes	ND	0.150	mg/kg		
Total BTEX	ND	0.300	mg/kg		
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500 105 71.5-134	

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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

# Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Source

Project Number: 212C - MD - 02935

Spike

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

RPD

## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3031717 - Volatiles										
LCS (3031717-BS1)				Prepared &	Analyzed:	17-Mar-23	;			
Benzene	1.96	0.050	mg/kg	2.00		98.2	81.4-118			
Toluene	1.94	0.050	mg/kg	2.00		97.2	88.7-121			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.3	86.1-120			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.3	88.2-124			
o-Xylene	1.88	0.050	mg/kg	2.00		94.0	84.9-118			
Total Xylenes	5.81	0.150	mg/kg	6.00		96.9	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.2	71.5-134			
LCS Dup (3031717-BSD1)				Prepared &	Analyzed:	17-Mar-23	;			
Benzene	2.02	0.050	mg/kg	2.00		101	81.4-118	2.98	15.8	
Toluene	2.04	0.050	mg/kg	2.00		102	88.7-121	4.83	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	86.1-120	4.33	16	
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	88.2-124	3.97	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	84.9-118	3.87	16.7	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	87.3-122	3.94	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.3	71.5-134			

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Celey D. Keene



# Analytical Results For:

TETRA TECH

Blank (3031507-BLK1)

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Prepared & Analyzed: 15-Mar-23

Project Number: 212C - MD - 02935

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3031507 - General Prep - Organics										

GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0	87.6	48.2-134		
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0	94.7	49.1-148		
			0 0					
LCS (3031507-BS1)				Prepared & Ana	lyzed: 15-Mar-23	1		
LCS (3031507-BS1) GRO C6-C10	166	10.0	mg/kg	Prepared & Ana	slyzed: 15-Mar-23 82.8	78.5-124		
	166 165	10.0 10.0		*	-			

Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0	92.5	48.2-134			
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0	97.2	49.1-148			
LCS Dup (3031507-BSD1)				Prepared & Ana	lyzed: 15-Mar-23				
GRO C6-C10	169	10.0	mg/kg	200	84.3	78.5-124	1.78	17.7	
DRO >C10-C28	170	10.0	mg/kg	200	85.1	72.5-126	2.77	21	
Total TPH C6-C28	339	10.0	mg/kg	400	84.7	77.6-123	2.28	18.5	
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0	96.1	48.2-134			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0	111	49.1-148			

	Batch 3031:	509 - Gener	al Prep -	<b>Organics</b>
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Blank (3031509-BLK1)			Prepared & Analys	zed: 15-Mar-23		
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0	92.3	48.2-134
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0	98.6	49.1-148

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

# Analytical Results For:

TETRA TECH

Analyte

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Surrogate: 1-Chlorooctadecane

LCS (3031715-BS1)

GRO C6-C10

DRO >C10-C28

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Source

Result

%REC

119

92.2

87.9

90.0

102

114

49.1-148

78 5-124

72.5-126

77.6-123

48.2-134

49.1-148

Project Number: 212C - MD - 02935 Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Spike

Level

50.0

200

200

400

50.0

50.0

Prepared & Analyzed: 17-Mar-23

Reported: 23-Mar-23 18:29

RPD

Limit

Notes

# Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

59.3

184

176

360

51.2

56.8

LCS (3031509-BS1)				Prepared & Anal	yzed: 15-Mar-2	3		
GRO C6-C10	165	10.0	mg/kg	200	82.4	78.5-124		
DRO >C10-C28	160	10.0	mg/kg	200	80.2	72.5-126		
Total TPH C6-C28	325	10.0	mg/kg	400	81.3	77.6-123		
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0	97.9	48.2-134		
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0	99.9	49.1-148		
LCS Dup (3031509-BSD1)				Prepared & Anal	yzed: 15-Mar-2	3		
GRO C6-C10	169	10.0	mg/kg	200	84.5	78.5-124	2.55	17.7
DRO >C10-C28	170	10.0	mg/kg	200	85.0	72.5-126	5.79	21
Total TPH C6-C28	339	10.0	mg/kg	400	84.7	77.6-123	4.16	18.5
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0	101	48.2-134		
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0	111	49.1-148		
Batch 3031715 - General Prep - Organic	s							
Blank (3031715-BLK1)				Prepared & Anal	yzed: 17-Mar-2	3		
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0	101	48.2-134		

mg/kg

mg/kg

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mg/kg

10.0

10.0

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Celey D. Keene



%REC

Limits

49.1-148

RPD

# Analytical Results For:

**TETRA TECH** 

Analyte

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Surrogate: 1-Chlorooctadecane

Project: ZIA HILLS CR-1 TRANSFER LINE RI

Source

Result

%REC

Project Number: 212C - MD - 02935

Spike

Level

50.0

Project Manager: CHRISTIAN LLULL

Fax To: (432) 682-3946

Reported: 23-Mar-23 18:29

RPD

Limit

Notes

## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

Units

Reporting

Limit

Result

65.2

Batch 3031715 - General Prep - Orga	anics								
LCS Dup (3031715-BSD1)				Prepared & Ana	lyzed: 17-Mar-2	3			
GRO C6-C10	178	10.0	mg/kg	200	89.2	78.5-124	3.24	17.7	
DRO >C10-C28	168	10.0	mg/kg	200	83.9	72.5-126	4.62	21	
Total TPH C6-C28	346	10.0	mg/kg	400	86.6	77.6-123	3.91	18.5	
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0	108	48.2-134			

mg/kg

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Celey D. Keene



# **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-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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Client Name:	COP	Site Manager:		Christ	tian LI	ull				Т				ANA	LYS	SIS	REG	UES	ST.	_			
Project Name:	212C-MD-02722		(512) 565							١.		(Cir								No.	)		
Project Location: (county, state)	Lea County, NM	Project #:	christian.l			0-02833				$\  \cdot \ $	-		Ш										
nvoice to:	Attn. to Payroll - 901 W Wall Street, S Midland, Texas 79701	Ste 100		21	20-WIL	J-02000					30)		P. P.							attached list)			
Receiving Laboratory:	Cardinal Labs	Sampler Signa	ature:	Mig	guel A	. Flores			-	11	N- O	Se Hg	Sel		Ш					attach			
Comments:										8260B	8015M ( GRO - DRO - ORO - MRO)	Cd Cr Pk	s Ba Cd Cr Pb			8270C/625				TDS istry (see			
1021177		SAMPI	LING	MATR	lx	PRESERVA'		υ	2	X 8021B BTEX 826 TX1005 (Ext to C35)	RO-L	As Ba	As Ba	tiles		30B / 6	8		1 1	Shemi	Balance		
423/172 LAB#	SAMPLE IDENTIFICATION	YEAR: 2022			$\top$		T	INER	[ (A)	21B	W.	als Ag	als Ag	Volatiles Semi Volatiles		mi. Vc	32 / 60	stos)		Sulfate /ater Che	on Ba		
( LAB USE )		DATE	TIME	WATER	도	HNO3		# CONTAINERS	FILTERED (Y/N)	BTEX 802	TPH 8016	PAH 8270C Total Metals Ag As	TCLP Metals	TCLP Volatiles	RCI	C/MS Vo	PCB's 8082 / 608	NORM PLM (Asbestos)	Chloride	Chloride Sulfate TDS General Water Chemistry	Anion/Cation		Hold
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 27, 2023

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

RE: ZIA HILLS CR-1 TRANSFER LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/21/23 14:41.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



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

## Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: ZIA HILLS CR-1 TRANSFER LINE RELEAS Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02935 Sample Received By: Shalyn Rodriguez

Project Location: COP - LEA COUNTY, NM

## Sample ID: AH - 8 (0-1') (H231276-01)

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	03/23/2023	ND	2.07	104	2.00	1.21		
Toluene*	<0.050	0.050	03/23/2023	ND	2.09	105	2.00	1.97		
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.72	112	6.00	1.97		
Total BTEX	<0.300	0.300	03/23/2023	ND						
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC						
Analyte	Analyte Result Reporting Lin			Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/23/2023	ND	432	108	400	0.00		
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	03/23/2023	ND	167	83.6	200	3.16		
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	179	89.6	200	1.11		
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND						
Surrogate: 1-Chlorooctane	140	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	147	% 49.1-14	8							

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

## **Notes and Definitions**

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/21/2023 2:35:01 PM

Project Manager: Christian Address:												B	ILL TO		110		-				1 1/0					
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City: Phone #: Project #: 2/2/-MD-02935 Project Name: Zia HINS CR Project Location: Lea Compampler Name: Coltan Bi	State:		ip: Pro Me	60	Ph	le	40	s e	9	Attn Add ity:	res	s:	tetre Nother by er	Linkl											•	
FOR LAB USE ONLY	ACI STRIP	-	T	Т		MA	TR	Y	F	ax i		ERV			1											
Lab I.D. Sample 1231276 1 A41-8 (0-1)		G (G)RAB OR (C)OMP.	. # CONTAINERS	GROUNDWATER	WASTEWATER	Solt	OIL	SLUDGE	OTHER	SE:	and the second second	OTHER:	DATE 3/21/23	PLING	XTP#	XRTEX	XINDE									
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# **APPENDIX F BLM Seed Mixture Details**

(25)

**3 Seed Mixtures Currently Used for Ecological Sites** 

(26)

#### BLM SERIAL #:

## **COMPANY REFERENCE:**

## 3.1 Seed Mixture 1, for Loamy 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 no 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 regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/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:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

<sup>\*</sup>Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

(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:

<u>Species</u>	<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

<sup>\*</sup>Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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(28)

#### BLM SERIAL #:

## **COMPANY REFERENCE:**

## 3.3 Seed Mixture 2, for Sandy 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:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

<sup>\*</sup>Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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(29)

#### BLM SERIAL #:

## **COMPANY REFERENCE:**

## 3.4 Seed Mixture 3, for Shallow 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:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass (Setaria magrostachya)	1.0
Green Spangletop (Leptochloa dubia)	2.0
Side oats Grama (Bouteloua curtipendula)	5.0

<sup>\*</sup>Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

(30)

#### BLM SERIAL #:

## **COMPANY REFERENCE:**

## 3.5 Seed Mixture 4, for Gypsum 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:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0
(DWS: DeWinged Seed)	

<sup>\*</sup>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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 209793

## **CONDITIONS**

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	209793
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation Plan is approved on the following conditions; 1. OCD pre-approval will be required for any application of a microbial strain to any visually impacted rocks if encountered. Material data sheet of the microbial strain will need to be provided. 2. Variance to increase sampling area size for each 5 point composite sample per 400 square feet is approved. 3. ConocoPhillips has 90-days (Remediation Due date: 10/10/2023) to submit a final closure report or time extension request along with furnishing an update-to-date status of the remediation being conducted.	7/10/2023