

June 3, 2022

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 20 Trunkline Release
Unit Letter J, Section 20, Township 26 South, Range 32 East
Lea County, New Mexico
Incident ID NAPP2208248869

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess a release that occurred from the Zia Hills 20 Trunkline. The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 20, Township 26 South, Range 32 East, Lea County, New Mexico (Site). The release site coordinates are 32.026542°, -103.696854°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 9, 2022. The release occurred as the result of a trunkline leak. Approximately 5.3 barrels (bbls) of crude oil, of which approximately 1 bbl of fluid was recovered. The spill calculator, included with the C-141, indicates the release affected an area of approximately 425 square feet. The New Mexico Oil Conservation Division (NMOCD) received and approved the C-141 report form for the release on March 23, 2022. The NMOCD Incident ID for the release is NAPP2208248869. Figure 3 depicts the approximate release extent and release point.

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 medium karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 0.5 miles (800 meters) of the Site. There are four wells within 0.9 miles (1,500 meters) with water level data with an average depth to water of 240 feet below ground surface (bgs). The nearest water well is 0.8 miles (1,294 meters) from the Site with a depth to water of 250 feet bgs. Thus, all reviewed water level data indicates depth to water in the vicinity of the Site to be greater than 100 feet bgs. The site characterization data are presented in Appendix B.

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 to determine recommended remedial action

Tetra Tech

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Release Characterization and Remediation Work Plan June 3, 2022

ConocoPhillips

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

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

Constituent	Site RRALs
Chloride	20,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

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

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

INITIAL RESPONSE ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin initial remedial response of the impacted area. A portion of the release footprint around the approximate release location along the Zia Hills 20 Trunkline was excavated to approximately 3 feet. Figure 4 depicts the release extent and the excavated area. Photographic documentation of site conditions during the remedial response activities immediately following the release event is included in Appendix C.

INITIAL SITE ASSESSMENT AND SAMPLING RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area on March 29, 2022. Soil samples were collected from eleven (11) sample locations (H-1 through H-5 and AH-1 through AH-6) within and around the release to evaluate the vertical and horizontal extent of the release. AH-1 and AH-6 were installed to within the release extent. H-1 through H-5 were installed around the perimeter of the release footprint to delineate the horizontal extent of impacted soil. The boring locations are shown on Figure 4.

A total of sixteen (16) 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 D.

Results from the March 2022 soil sampling event are summarized in Table 1. Analytical results associated with borings AH-1 through AH-6 were above Site RRALs and/or Reclamation Requirements for TPH in soils. All other analytical results from the March 2022 sampling were below Site RRALs and Reclamation Requirements.

ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

After review of analytical results from the sampling event, vertical delineation of the release footprint was not achieved during the March 2022 soil assessment activities. Thus, Tetra Tech personnel returned to the Site to complete vertical delineation of the release area on April 14, 2022. One additional boring was

Release Characterization and Remediation Work Plan June 3, 2022

ConocoPhillips

installed at the previously drilled boring location of AH-2 to a depth of 4.5 feet bgs. This boring was installed to collect soil samples from greater depths at AH-2.

A total of three (3) soil samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500CI-B, and BTEX via Method 8021B.

Results from the April 2022 soil sampling event are summarized in Table 1. Analytical results associated with boring location AH-2 exceeded Site RRALs and/or Reclamation requirements for BTEX and/or TPH in soils to a depth of 4 feet bgs. However, analytical results associated with boring AH-2 were below Site RRALs and Reclamation Requirements within the 4 to 4.5-foot sample depth interval. Following the March and April 2022 assessment activities, the release is horizontally and vertically delineated. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

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 5. Impacted soils will be excavated to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs and/or 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 dug by hand to the maximum extent practicable.

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 400 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. Seven (7) confirmation floor samples and four (4) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 2,600 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 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 surface grade.

REVEGETATION PLAN

The backfilled areas will be seeded in Spring 2022, or the first favorable growing season following backfilling, to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) Sites Seed Mixture 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 NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one

Release Characterization and Remediation Work Plan June 3, 2022

ConocoPhillips

growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E.

CONCLUSION

Remediation activities at the Site are proposed to begin within 90 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:

Ms. Sam Widmer, RMR - ConocoPhillips

Release Characterization and Remediation Work Plan June 3, 2022

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List of Attachments

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Site Characterization

Figure 4 – Initial Response and Site Assessment

Figure 5 – Proposed Remediation Extent

Figure 6 – Alternative Confirmation Sampling Plan

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A - C-141 Form

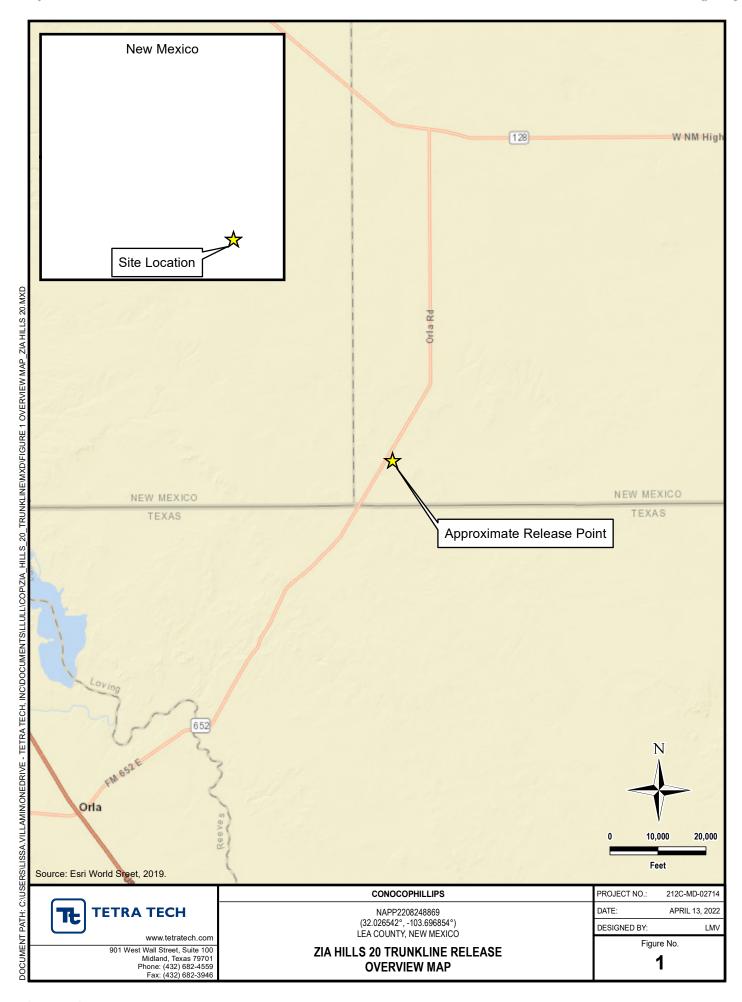
Appendix B – Site Characterization Data

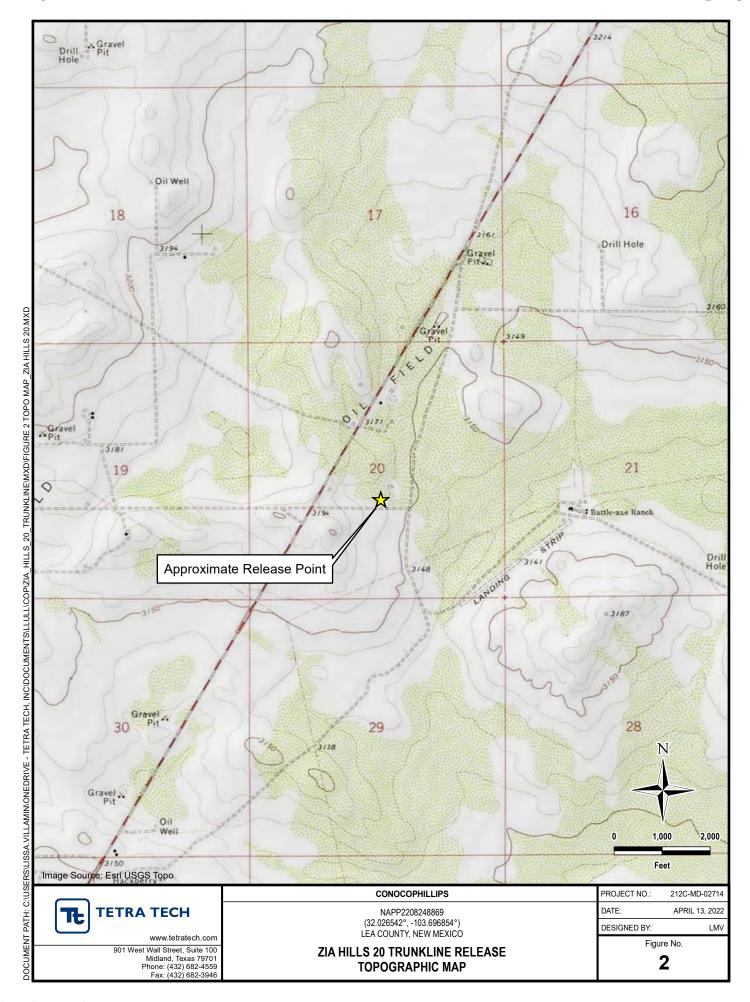
Appendix C – Photographic Documentation

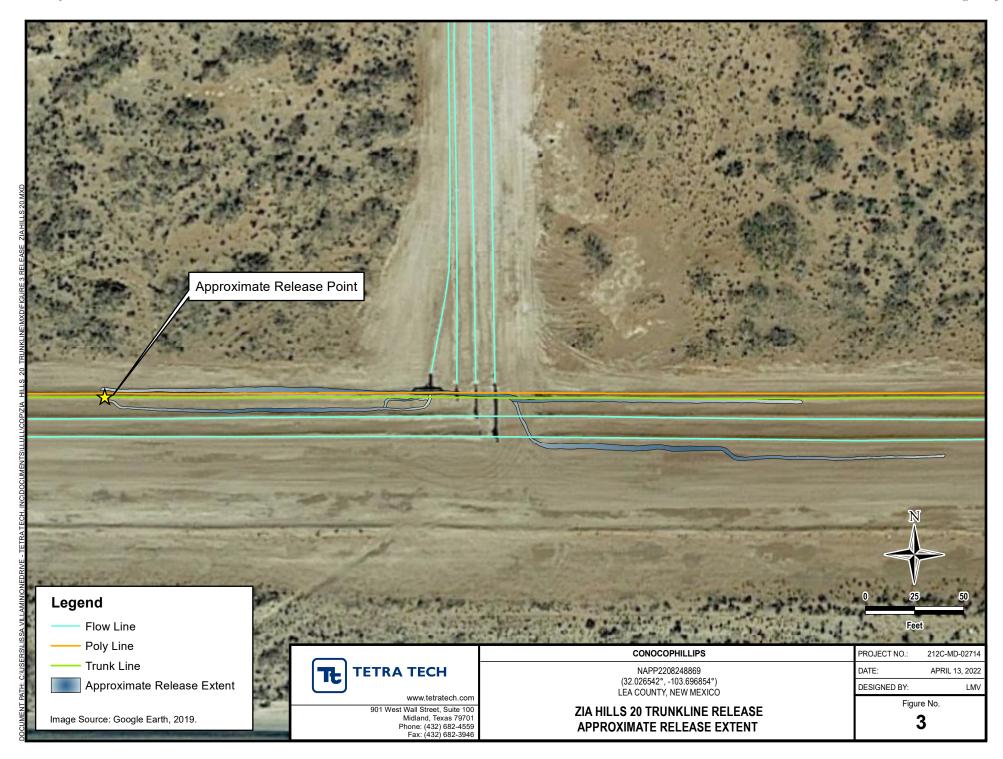
Appendix D - Laboratory Analytical Data

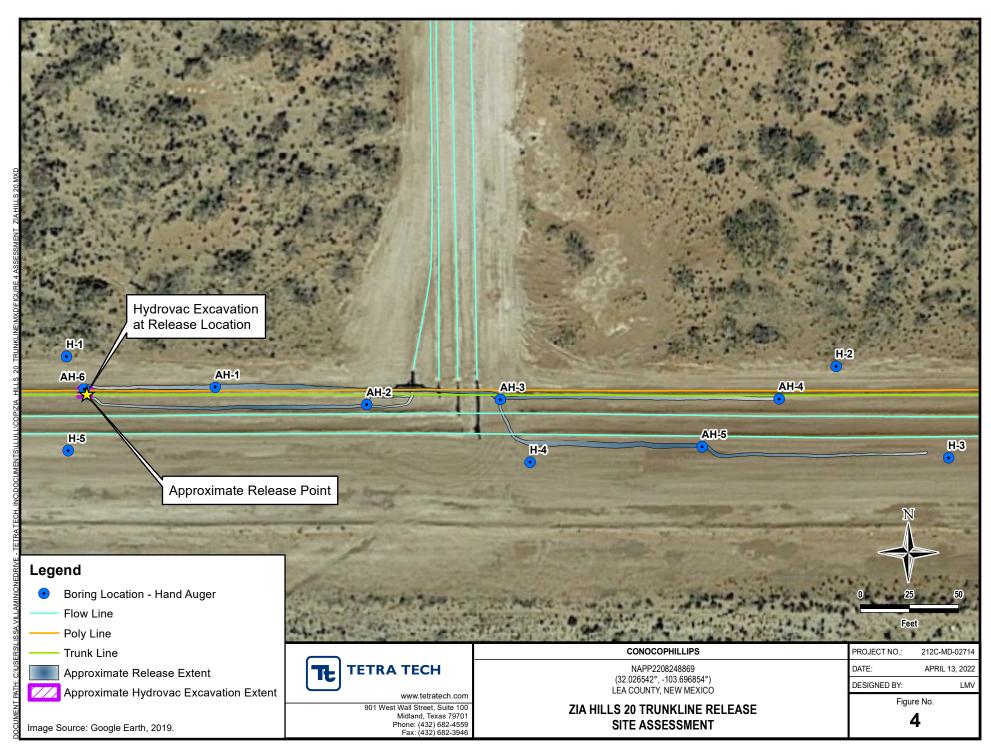
Appendix E - NMSLO Seed Mixture Details

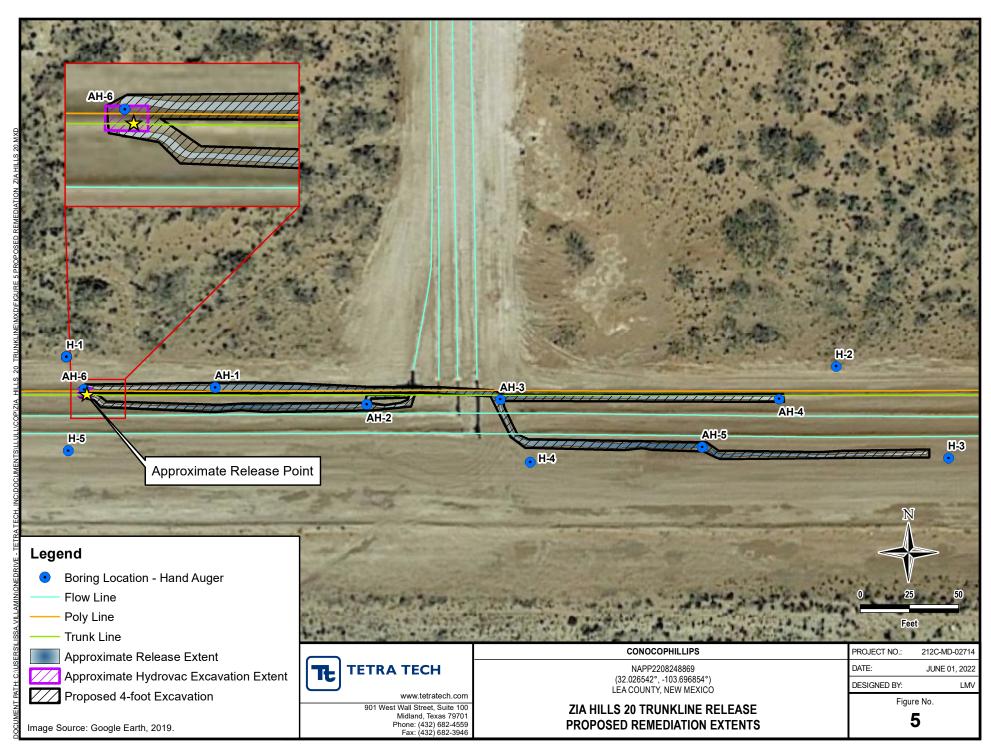
FIGURES

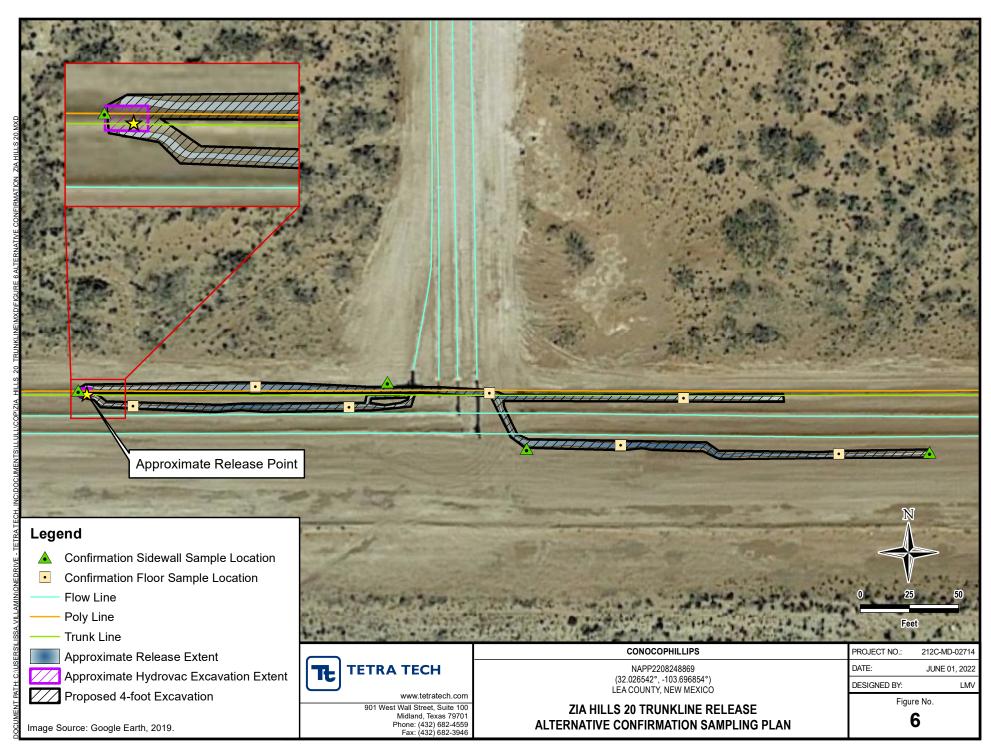












TABLE

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT- NAPP2208248869 CONOCOPHILLIPS ZIA HILLS 20 TRUNKLINE RELEASE LEA COUNTY, NM

			5 : 116								BTEX ²								TF	PH ³		
Sample ID	Sample Date	Sample Depth	Field Screen	ning Results	Chloride	Chloride ¹	Chloride ¹	Ponzo	20	Taluan	_	E+hylhon:	ono	Total Xyl	onos	Total BTEX	GRO		DRO		EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzene		roluen	Toluene		Ethylbenzene		enes	TOTAL PLEX	C ₆ - C	10	> C ₁₀ - (C ₂₈	> C ₂₈ - C ₃₆ (GRO+DRO+EXT DRO)		
		ft. bgs	рр	om	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 C	mg/kg	
H-1	3/29/2022	0-1	45.0	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
	-, -, -	2-4	60.1	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
H-2	3/29/2022	0-1	58.5	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
11 2	3/23/2022	2-4	40.1	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
H-3	3/29/2022	0-1	89.2	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
п-э	3/29/2022	2-2.5	152	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
H-4	3/29/2022	0-1	118	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
П-4	3/29/2022	2-2.5	107	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
	2/20/2022	0-1	43.9	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
H-5	3/29/2022	2-2.5	36.4	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0	-	
AH-1	3/29/2022	0-1	-	-	128		3.76		62.4		17.1		233		316	7,290		11,400		1,100	19,790	
	3/29/2022	0-1	-	-	80.0		3.53		69.6		22.0		308		403	6,970		13,000		1,670	21,640	
AH-2		2-3	-	-	32.0		< 0.050		0.909		0.769		8.84		10.5	220		843		122	1,185	
7.11.2	4/14/2022	3-4	-	-	32.0		< 0.050		< 0.050		< 0.050		0.207		< 0.300	21.8		405		67.4	494	
		4-4.5	-	-	32.0		0.518		7.76		1.15		12.7		22.1	42.5		48.9		< 10.0	91.4	
AH-3	3/29/2022	0-1	-	-	16.0		1.70		45.7		17.2		216		281	6,740		12,700		1,600	21,040	
AH-4	3/29/2022	0-1	-	-	48.0	QM-07	< 2.00		53.3		18.4		260		331	7,290		12,000		1,380	20,670	
AH-5	3/29/2022	0-1	-	-	64.0		1.95		31.5		8.70		117		159	3,140		5,420		687	9,247	
AH-6	3/29/2022	3-4	-	-	128		0.405		7.61		2.13		30.0		40.1	362		2,850		301	3,513	

NOTES:

ft. Feet

bgs Below ground surface

TPH Total Petroleum Hydrocarbons

mg/kg Milligrams per kilogram

CDC Caralina managaran

GRO Gasoline range organicsDRO Diesel range organics

1 Method SM4500Cl-B

Method 8015M

2 Method 8021B

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

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

APPENDIX A C-141 Forms

Received by OCD: 3/23/2022 1:43:16 PM

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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Incident ID	NAPP2208248869
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817			
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043			
Contact email	Charles.R.Beauvais@ConocoPhillps.com	Incident # (assigned by OCD)	NAPP2208248869			
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701					

			Location	of Release So	urce		
Latitude	32.026	5565			-103.69683	33	
			(NAD 83 in deci	imal degrees to 5 decima	ıl places)		
Site Name		Zia Hills 20	Trunkline	Site Type	Tank Batte	∍ry	
Date Release Discovered March 9, 2022				API# (if appli	cable)		
				'			
Unit Letter	Section	Township	Range	County	y		
J	20	26S	32E	Lea	l		
Surface Owne	er: 🗌 State	■ Federal □ Tr	ibal \square Private (N	ame:)	
Surface Owne	i State		ioui 🗀 i iivate (iv	<i>ame.</i>			

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 5.3	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
~ ^- 1		

Cause of Release

The release was caused by a leak on the trunkline.

The release was off pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be done at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

*Received by OCD: 3/23/2022 1:43:16 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Wd 67:17:7 77	07/2/9 : Suisvui of pasvalan
Incident ID	NAPP2208248869
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No If YES, was immediate n		whom? When and by what means (phone, email, etc)?						
	Initial 1	Response						
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury								
■ The source of the rela	ease has been stopped.							
<u> </u>	as been secured to protect human health a	nd the environment.						
1								
All free liquids and re	ecoverable materials have been removed	and managed appropriately.						
Por 10 15 20 9 P. (4) NIV	IAC the responsible party may commone	e remediation immediately after discovery of a release. If remediation						
has begun, please attach	a narrative of actions to date. If remedi	al efforts have been successfully completed or if the release occurred p, please attach all information needed for closure evaluation.						
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.	required to report and/or file certain release nement. The acceptance of a C-141 report by the rate and remediate contamination that pose a t of a C-141 report does not relieve the operator	ne best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have hreat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws						
Printed Name Brittany N. Esparza Signature: Brittany.Esparza@ConocoPhillips.com Environmental Technician Jate: 3/23/2022 Telephone: (432) 221-0398								
Signature:	dan Departe	Date: 3/23/2022						
email: Brittany.Espar	za@ConocoPhillips.com							
OCD Only								
Received by: Jocelyr	n Harimon	Date: 03/23/2022						

NAPP2208248869

Received by OCD: 3/23/2022 Facility Name & Number:	Zia Hills 20 Trunk Line
Asset Area:	Delaware Basin East
Release Discovery Date & Time:	3/9/2022

Release Type: Oil

Provide any known details about the event:

Spill Calculation - On Pad Surface Pool Spill

					A CONTRACTOR OF THE PARTY OF TH				
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	200.0	1.0	1.00	3	200.000	0.028	0.989	0.001	0.990
Rectangle B	75.0	2.0	2.50	2	150.000	0.104	2.781	0.005	2.796
Rectangle C	25.0	3.0	4.00	3	75.000	0.111	1.483	0.006	1.492
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Reteaseable Imagin	ig: 3/23	/2022 3	:03:10 PM		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0! -
								Total Volume Release:	5.278

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 92539

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	92539
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
jharim	on None	3/23/2022

f New Mexico Incident ID NAPP2208248869

Incident ID	NAPP2208248869
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	125 (ft bgs)						
Did this release impact groundwater or surface water?							
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?							
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?							
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗹 No						
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗹 No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗹 No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗹 No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗸 No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical 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 Photographs including date and GIS information Topographic/Aerial maps I aboratory data including chain of custody	ls.						

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: 6/3/2022 8:17:09 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2208248869	
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Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications 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
Printed Name: Sam Widmer Signature: Sam.Widmer@conocophillips.com Sam.Widmer@conocophillips.com	Title:Principal Program Manager Date:Jun-03-2022 Telephone:281-206-5298
OCD Only Received by:	Date:

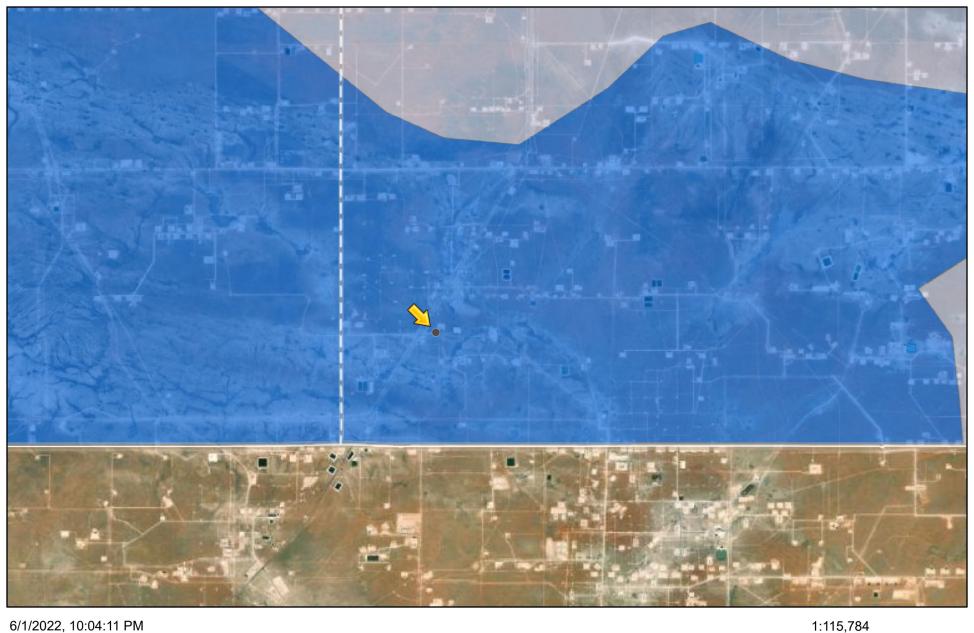
	Page 22 of 7.	1
Incident ID	NAPP2208248869	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan times)	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
	oduction equipment where remediation could cause a major facility
_	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lates.	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Sam Widmer	Title: Principal Program Manager
Signature: San Widner	Date:Jun-03-2022
email:5454CA5BAD33498 Sam.Widmer@conocophillips.com	Telephone:281-206-5298
OCD Only	
Received by: Approved Approved with Attached Conditions of Approved.	Date: Approval
	Date: 06/07/2022

APPENDIX B Site Characterization Data

Zia Hills 20 Trunkline Karst Potential



6/1/2022, 10:04:11 PM

Override 1

Low

Karst Occurrence Potential



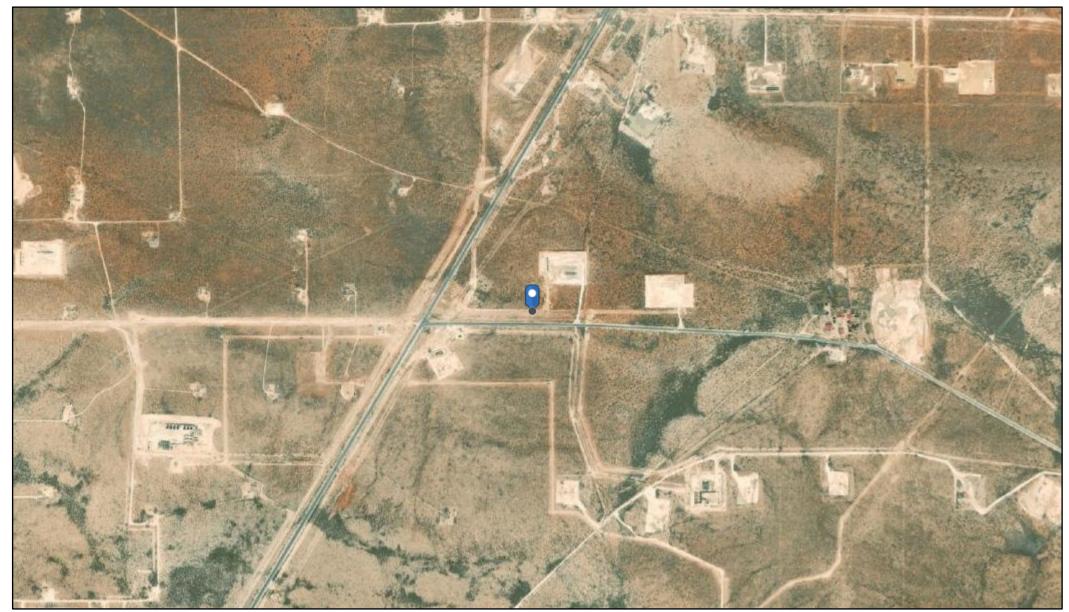
1.25

0.75

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar

3 mi

Zia Hills 20 Trunkline - OCD Waterbodies Map



4/12/2022, 11:32:38 AM

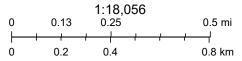


OSE Water-bodies



PLJV Probable Playas

OSE Streams
Released to Imaging: 6///2022 2:21:49 PM



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



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	Q (Q							Depth	Depth	Water
POD Number	Code	e basin	County	64	16	4 5	Sec	Tws	Rng	Х	Υ	Distance	•	•	Column
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985 🌕	1199	850		
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	1294	270	250	20
<u>C 02323</u>		С	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	1294	405	405	0
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045 🌍	1366	280	180	100
C 02271	R	CUB	LE		2	3	21	26S	32E	624449	3544111* 🌍	1390	150	125	25

Average Depth to Water: 240 feet

Minimum Depth: 125 feet

Maximum Depth: 405 feet

Record Count: 5

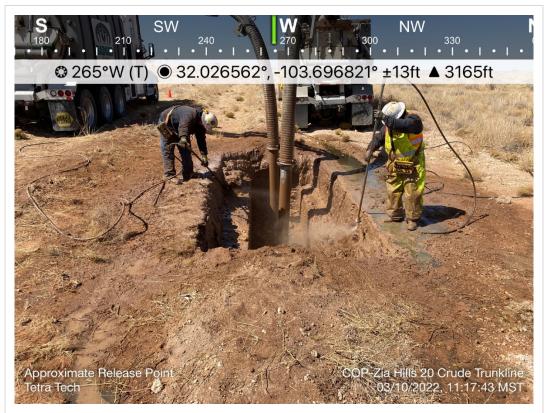
UTMNAD83 Radius Search (in meters):

Easting (X): 623058.33 Northing (Y): 3544119.93 Radius: 1500

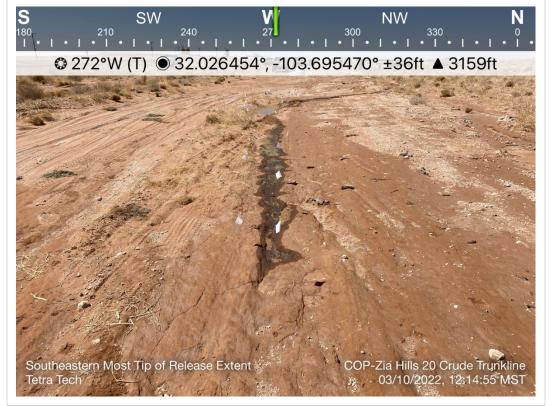
*UTM location was derived from PLSS - see Help

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

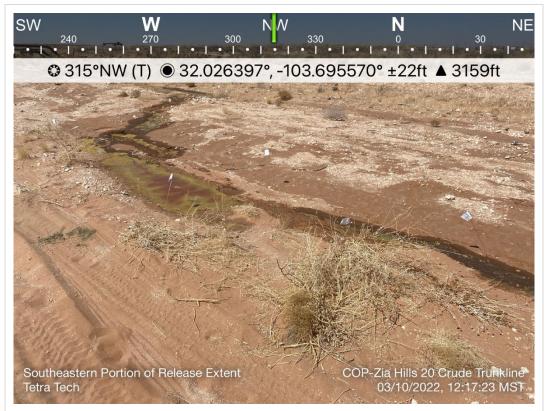
APPENDIX C Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west. Hydrovac excavation at the release point.	1
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC.	DESCRIPTION	View west. Southeastern extent of the release footprint.	2
PROJECT NO. 212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest. Southeastern portion of the release footprint.	3
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west. Eastern portion of the release footprint.	4
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southeast. Northern extent of the release footprint.	5
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



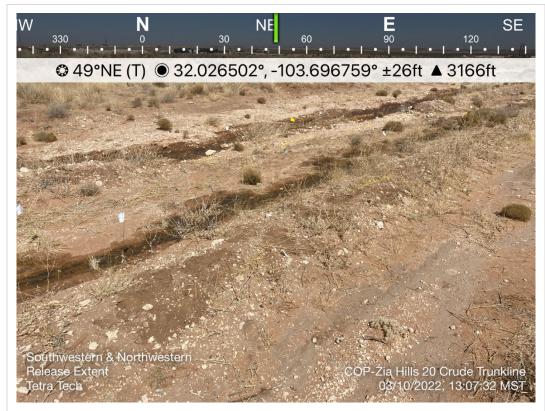
TETRA TECH, INC.	DESCRIPTION	View east. Release footprint near production piping.	6
PROJECT NO. 212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east. Release footprint near production piping.	7
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east. Western portion of the release footprint.	8
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC.	DESCRIPTION	View northeast. Western portion of the release footprint.	9
PROJECT NO. 212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east. Completed hydrovac excavation at release point.	10	
212C-MD-02714A	SITE NAME	COP – Zia Hills 20 Trunkline Release	3/10/2022	

APPENDIX D Laboratory Analytical Data



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

April 01, 2022

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

RE: ZIA HILLS 20 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/29/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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:
 03/29/2022
 Sampling Date:
 03/29/2022

 Reported:
 04/01/2022
 Sampling Type:
 Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

A I J D. ... 711

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 1 (0-1') (H221247-01)

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	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	81.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	80.5	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 1 (2-4') (H221247-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	89.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.2	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

(432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Fax To:

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 2 (0-1') (H221247-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	88.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.7	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 2 (2-4') (H221247-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	90.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.3	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 3 (0-1') (H221247-05)

RTFY 8021R

BIEX 8021B	mg	^и кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.4	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 3 (2'-2.5') (H221247-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.2	% 59.5-14	22						

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Celey D. Kune



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 4 (0-1') (H221247-07)

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	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/30/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/30/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.3	% 59.5-14	2						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 4 (2'-2.5') (H221247-08)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.17	109	2.00	1.46	
Toluene*	<0.050	0.050	03/31/2022	ND	2.21	110	2.00	5.26	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.24	112	2.00	6.34	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.66	111	6.00	6.45	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	84.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.7	% 59.5-14	2						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02714 Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 5 (0-1') (H221247-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	91.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.3	% 59.5-14	2						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: Sample Received By: 212C - MD - 02714 Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: H - 5 (2'-2.5') (H221247-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	<0.050	0.050	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	<0.050	0.050	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	<0.300	0.300	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	<10.0	10.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	<10.0	10.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.4	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Applyzod By: MC\

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 1 (0-1') (H221247-11)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.76	2.00	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	62.4	2.00	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	17.1	2.00	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	233	6.00	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	316	12.0	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7290	50.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	11400	50.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	1100	50.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	356	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	214	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 2 (0-1') (H221247-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.53	2.00	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	69.6	2.00	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	22.0	2.00	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	308	6.00	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	403	12.0	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	139	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6970	50.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	13000	50.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	1670	50.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	781 5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	468	% 59.5-14	2						

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Celey D. Keine

S-04



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: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Applyzod By: MC\

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 3 (0-1') (H221247-13)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: MS\					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.70	0.500	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	45.7	0.500	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	17.2	0.500	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	216	1.50	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	281	3.00	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	209	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/31/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6740	50.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	12700	50.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	1600	50.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	807	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	441	% 59.5-14	2						

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03/29/2022

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date:

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes) Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 4 (0-1') (H221247-14)

BTEX 8021B	mg,	'kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	53.3	2.00	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	18.4	2.00	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	260	6.00	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	331	12.0	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2022	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7290	50.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	12000	50.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	1380	50.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	820 5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	413	% 59.5-14	2						

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Celey D. Keine

S-04



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: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Applyzod By: MC\

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 5 (0-1') (H221247-15)

RTFY 8021R

B1EX 8021B	mg	/кд	Analyze	a By: MS\					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.95	0.500	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	31.5	0.500	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	8.70	0.500	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	117	1.50	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	159	3.00	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	159	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3140	50.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	5420	50.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	687	50.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	385	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	237	% 59.5-14	2						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 03/29/2022 Sampling Date: 03/29/2022

Reported: 04/01/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Shalyn Rodriguez

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 6 (3'-4') (H221247-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.405	0.100	03/31/2022	ND	2.16	108	2.00	1.17	
Toluene*	7.61	0.100	03/31/2022	ND	2.15	108	2.00	0.794	
Ethylbenzene*	2.13	0.100	03/31/2022	ND	2.12	106	2.00	2.08	
Total Xylenes*	30.0	0.300	03/31/2022	ND	6.61	110	6.00	0.922	
Total BTEX	40.1	0.600	03/31/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/31/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	362	10.0	03/31/2022	ND	203	101	200	2.51	
DRO >C10-C28*	2850	10.0	03/31/2022	ND	234	117	200	0.622	
EXT DRO >C28-C36	301	10.0	03/31/2022	ND					
Surrogate: 1-Chlorooctane	132	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	142	% 59.5-14	2						

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Celeg & Freene



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.
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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Celeg D. Freene

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Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

company Name: Conceph Wes	BILL TO	ANIAL VOICE
Project Manager: Chryspan Llude	P.O.#:	ANALYSIS REQUEST
Address:	Company: The	7
City: State:	Zip: Attn: Attn:	Light
Phone #: Fax #:	Address: by end	
Project #: 212 MD-02714 Project Owner:	City:	
Project Name: 2/2 HMG 20 Trank Une		
Project Location: Lea County MM	Phone #:	
Sampler Name: Colton Bakesteff	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPM BTEX Chlorides
2 H-1 (2'-4') 3 H-2 (0-1')	Zalads X	
5 H-3 (2-25) 1 H-4 (2-1) 2 H-4 (2-1)		
H-S(0-1) H-S(1-2) PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy analyses. All claims including those for negligance and any other cause whatscoors st.	2-2. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	bit by the client for the
service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished By: Relinquished By: Date: D	To vectorize waved unless made in writing and received by Cardinal within 30 days an uding without limitation, business interruptions, loss of use, or loss of profits incurred by by Cardinal, regardless of whether such claim is bassed upon any of the above stated re	ar completion of the applicable client, its subsidiaries, assons or otherwise.
Relinquished By: Time: 5 1	Received By:	Verbal Result: Yes IV No Add'! Phone #: All Results are emailed. Please provide Email address: Christian, Lull Otedor technology REMARKS:
Delivered By: (Circle One) Observed Temp.	ن	
Sampler - UPS - Bus - Other: Corrected Temp. °C	Cool Intact Yes Yes	Thermometer ID #113 Cool Intact Observed Temp. °C Yes Yes

Page 19 of 20

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL
Laboratories

101 East Marland, Hobbs, NM 882

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

Company Name: Canolo Phillips	BILL TO	ANALYSIS
Project Manager:	P.O. #:	ANALTSIS REQUEST
Address:	. Y	7
City: State:	MAS	
Phone #: Fax #:	Address: 64 00	A SAFE C
Project #: 212CMD-02714 Project Owner:	City:	
Project Name: 21 HHS 20 trunk Une		
who !	Phone #:	
10.	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	TPH BTEX Chlorida
13 AH-2 (0-1') 13 AH-3 (0-1') 14 AH-4 (n-1')		1
W AH-6 (3-4')	*	
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether bend in control or that the little of the liability and client's exclusive remedy for any daim arising whether bend in control or that the little of the liability and client's exclusive remedy for any daim arising whether bend in control or that the little of the liability and client's exclusive remedy for any daim arising whether bend in control or the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability arising whether the liability and client's exclusive remedy for any daim arising whether the liability and client's exclusive remedy for any daim arising whether the liability are the liability and client's exclusive remedy for any daim arising whether the liability are the liability and client's exclusive remedy for all the liability and client's exclusiv	Videm arising whether beard in posterior and that the state of the sta	
indee. In no event shall Cardinal be liable for indeeled and or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, leftinguished By: Received By: Received By:	eemed wahed unless made in writing and received by Cardinal within 30 days afti without limitation, business interruptions, loss of use, or loss of profits incurred by, urdinal, regardless of whether such claim is based upon any of the above stated re Received By:	applicable
elinquished By:	Received By:	Verbal Result: Yes D'No Add'I Phone #: All Results are emailed. Please provide Email address: All DHA LIM Office February REMARKS:
ampler - UPS - Bus - Other: Corrected Temp. °C 20.42	Sample Condition CHECKED BY: Cool Intact (Initials) Ves. Yes.	Standard D R
FORM-000 N 3.2 10/07/21		Correction Factor -0.5°C

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

Page 20 of 20



April 21, 2022

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

RE: ZIA HILLS 20 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 04/14/22 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 04/14/2022
 Sampling Date:
 04/14/2022

 Reported:
 04/21/2022
 Sampling Type:
 Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02714 Sample Received By: Tamara Oldaker

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 2 (2'-3') (H221558-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	1.81	90.6	2.00	15.1	
Toluene*	0.909	0.050	04/19/2022	ND	1.87	93.3	2.00	14.3	
Ethylbenzene*	0.769	0.050	04/19/2022	ND	1.87	93.6	2.00	15.8	
Total Xylenes*	8.84	0.150	04/19/2022	ND	5.53	92.1	6.00	17.2	
Total BTEX	10.5	0.300	04/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	237	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/19/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	220	10.0	04/19/2022	ND	207	103	200	0.778	
DRO >C10-C28*	943	10.0	04/19/2022	ND	189	94.7	200	20.5	
EXT DRO >C28-C36	122	10.0	04/19/2022	ND					
Surrogate: 1-Chlorooctane	125	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	124	% 59.5-14	2						

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Celey D. Kune



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 04/14/2022 Sampling Date: 04/14/2022

Reported: 04/21/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Tamara Oldaker

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 2 (3'-4') (H221558-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	1.81	90.6	2.00	15.1	
Toluene*	<0.050	0.050	04/19/2022	ND	1.87	93.3	2.00	14.3	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	1.87	93.6	2.00	15.8	
Total Xylenes*	0.207	0.150	04/19/2022	ND	5.53	92.1	6.00	17.2	
Total BTEX	<0.300	0.300	04/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/19/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.8	10.0	04/19/2022	ND	207	103	200	0.778	
DRO >C10-C28*	405	10.0	04/19/2022	ND	189	94.7	200	20.5	
EXT DRO >C28-C36	67.4	10.0	04/19/2022	ND					
Surrogate: 1-Chlorooctane	111 5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115	% 59.5-14	2						

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Celey D. Kune



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/14/2022 Sampling Date: 04/14/2022

Reported: 04/21/2022 Sampling Type: Soil

Project Name: ZIA HILLS 20 TRUNKLINE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02714 Sample Received By: Tamara Oldaker

Project Location: CONOCO PHILLIPS - LEA CO NM

Sample ID: AH - 2 (4'-4.5') (H221558-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.518	0.050	04/19/2022	ND	1.81	90.6	2.00	15.1	
Toluene*	7.76	0.050	04/19/2022	ND	1.87	93.3	2.00	14.3	
Ethylbenzene*	1.15	0.050	04/19/2022	ND	1.87	93.6	2.00	15.8	
Total Xylenes*	12.7	0.150	04/19/2022	ND	5.53	92.1	6.00	17.2	
Total BTEX	22.1	0.300	04/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	166	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/19/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	42.5	10.0	04/19/2022	ND	207	103	200	0.778	
DRO >C10-C28*	48.9	10.0	04/19/2022	ND	189	94.7	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					
Surrogate: 1-Chlorooctane	83.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	86.5	% 59.5-14	2						

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Celey D. Keine



Notes and Definitions

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.

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

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Celey D. Keine

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476		
Company Name: Langue Phalles	BILL TO	ANALYSIS REQUEST
Project Manager: Charles Lall	P.O. #:	
Address:	Company: Potos Tolk	
City: State: Zip:	Attn: hoften the	
	C 101 11 11 11 11 11 11 11 11 11 11 11 11	

Company Name: Congl. Phillips		BILL TO	ANALYSIS REQUEST	
Project Manager: Charles Link	P.O. #:			1
Address:	Compa	Company: Petro Tech		
City: State:	Zip:	hoteton Lun		
Phone #: Fax #:		Address: by emoll		
Project #: 2/26-MJ-827/4 Proje	Project Owner: City:			
20	Frank Inc Rolando State:	Zip:		
		*		
7				
	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	JDGE HER : D/BASE:	/ COOL HER :	PH STEX hlorades	
[AH-2 (2-3')	G W S O S	_		
24-213-4)	> >	4/14/22		
(5%-177-HBC)	×	4/14/22		
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APPENDIX E NMSLO Seed Mixture Details



VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

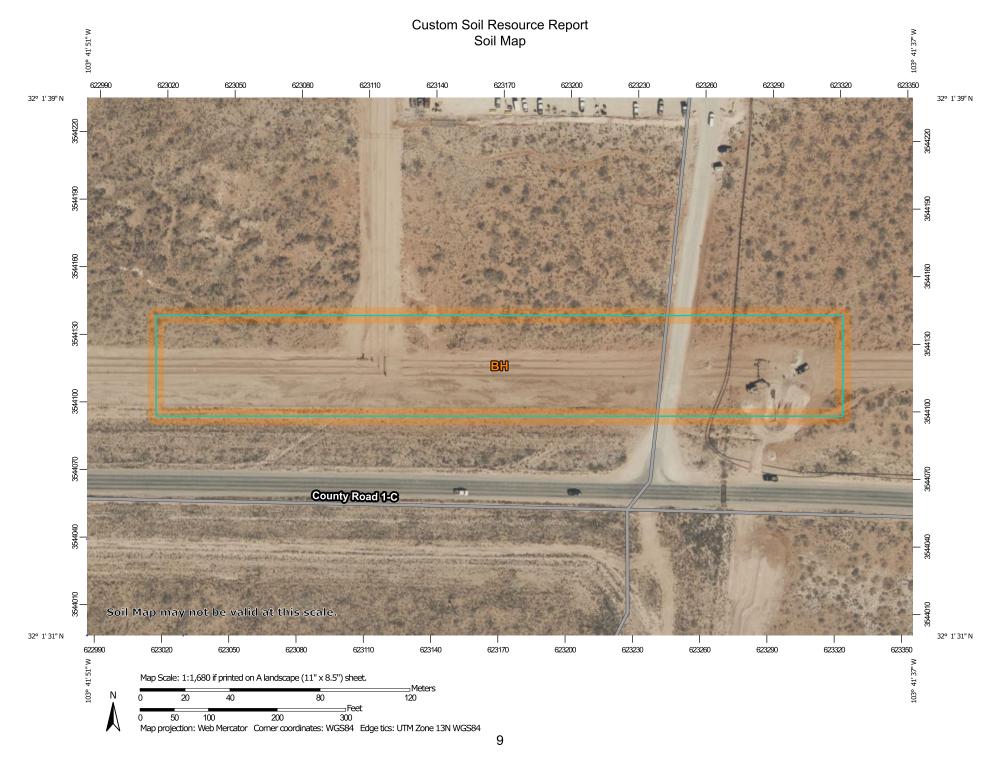
Custom Soil Resource Report for Lea County, New Mexico

Zia Hills 20 Trunkline



Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

(2)

Blowout



Borrow Pit



Clay Spot



Closed Depression





Gravel Pit



Gravelly Spot



Landfill



Lava Flow Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Page 64 of

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
ВН	Berino-Cacique association, hummocky	3.4	100.0%	
Totals for Area of Interest		3.4	100.0%	

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

BH—Berino-Cacique association, hummocky

Map Unit Setting

National map unit symbol: dmpg Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock over

calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 10 inches: fine sand

Btk - 10 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 7 inches: fine sand
Bt - 7 to 28 inches: sandy clay loam
Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC004NM - Sandy

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 4 percent

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 3 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Palomas

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Dune land

Percent of map unit: 1 percent

Hydric soil rating: No

SLO Seed Mix

SM Series

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



NMSLO Seed Mix

Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Galleta grass	Viva, VNS, So.	2.5	F	
Little bluestem	Cimmaron, Pastura	2.5	\mathbf{F}	
Blue grama	Hachita, Lovington	2.0	D	
Sideoats grama	Vaughn, El Reno	2.0	F	
Sand dropseed	VNS, Southern	1.0	\mathbf{S}	
Forbs:				
Indian blanketflower	VNS, Southern	1.0	D	
Parry penstemon	VNS, Southern	1.0	D	
Blue flax	Appar	1.0	D	
Desert globemallow	VNS, Southern	1.0	D	
Shrubs:				
Fourwing saltbush	VNS, Southern	2.0	D	
Common winterfat	VNS, Southern	1.0	\mathbf{F}	
Apache plume	VNS, Southern	0.75	F	
	Total PLS/acro	e 17.75		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



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 113530

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	113530
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet. Please ensure vertical and lateral delineation is complete at bottom and sidewalls of excavation to the specified criteria.	6/7/2022