

February 23, 2024

District Supervisor Oil Conservation Division, District 2 811 S. First St. Artesia, New Mexico 88210

Re: REVISED Release Characterization and Remediation Work Plan ConocoPhillips On behalf of Solaris Water Midstream, LLC Pine Springs 2 State SWD #001 Release Unit Letter K, Section 2, Township 26 South, Range 25 East Eddy County, New Mexico Incident ID NAB1817955890 2RP-4832

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release at the Pine Springs 2 State salt water disposal (SWD) #001 (API # 30-015-42348). The release footprint is located in Public Land Survey System (PLSS) Unit Letter K, Section 2, Township 26 South, Range 25 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.071359°, -104.366918°, as shown on Figures 1 and 2. The Site is currently operated by Solaris Water Midstream, LLC (Solaris).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on June 25, 2018. The release occurred as the result of an O-ring in the hammer union failing. Approximately 20 barrels (bbls) of produced water were released, of which 20 bbls were recovered. The NMOCD received the initial C-141 on June 27, 2018, and subsequently assigned the release the Remediation Permit (RP) number 2RP-4832 and the Incident ID NAB1817955890. The initial C-141 form is included in Appendix A.

The Pine Springs 2 State SWD #001 (2RP-4832/NAB1817955890) is included in an Agreed Compliance Order ("ACO") with the NMOCD, related to unresolved releases from COPC's predecessor-in-interest ("COG"). The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than March 31, 2022. As of March 11, 2022, COPC has submitted characterization and remediation plans for all of the properties identified and owned. All documentation was submitted in accordance with ACO terms. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, NMOCD. The Delineation Workplan previously completed by COG was included as a portion of the ACO.

The Pine Springs 2 State SWD #001 Release (NAB1817955890) footprint coincides with an additional release incident associated with the Pine Springs 2 State SWD #001 (NAB1735335003). A separate Release Characterization and Work Plan report will be submitted for the coincident release. As discussed,

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Solaris is currently the owner and operator at this facility. Rob Kirk, Vice President & General Manager, HSE & Compliance for Aris Water Solutions, has authorized COP to complete remedial work at the facility.

SITE CHARACTERIZATION

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

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. There is (1) water well within approximately 0.70 miles (1,125 meters) of the Site with a depth to groundwater of 23 feet below ground surface (bgs). Site characterization data is presented in Appendix B.

SLO REGULATORY COMPLIANCE

To comply with the requirements set by the New Mexico State Land Environmental Compliance Office (ECO), on May 18, 2023, Tetra Tech provided notice of intent to install additional soil borings to complete delineation of the release area. Permission was approved by Tami Knight on June 26, 2023 via email. A copy of the regulatory correspondence is included in Appendix C.

The initial Release Characterization and Remediation Work Plan which was rejected by the NMOCD on February 2, 2024 was submitted to the SLO for review on January 18, 2024. This revised report will be report will be submitted to the NMSLO ECO office for review as well.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the site is located on State Trust Lands managed by the New Mexico State Land Office (NMSLO). A review of the NMSLO Land Status Map was completed, and the site is within two active oil and gas leases VC01220004 and VB24120001. The active leases are listed under Tap Rock Resources, LLC. Tetra Tech contacted the NMSLO to confirm the need for a Right of Entry permit (RoE). Entities from within the ECO and Commercial Resources Division (CRD) both confirmed that there was no need for a RoE permit.

Prior correspondence with the CRD concerning assessment activities of a release, which occupied multiple lease parcels, resulted in the need for a RoE permit. Based on previous correspondence between the New Mexico Stand Land Office CRD and Tetra Tech, and out of an abundance of caution, ConocoPhillips obtained a Right of Entry for the Site.

COPC representatives contacted the CRD to obtain the permit. On October 23, 2023, Stephanie Garcia Richard executed the permit (No. RE-6734), beginning the period of 180 days for which the permit would be active. A copy of the right of entry permit can be found in Appendix C.

REGULATORY FRAMEWORK

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

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

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

COG ASSESSMENT & PROPOSED WORKPLAN

Based on available documentation, Concho (COG) was on Site to perform assessment activities at the Site on September 17, 2018. Fourteen (14) locations were selected, with seven (7) locations (T-1 to T-7) within the approximate release footprint for vertical delineation and seven (7) locations (T-8 to T-14) around the exterior of the release footprint for horizontal delineation. Samples collected from within the release footprint were collected from a maximum depth of 8 feet bgs. Samples collected around the perimeter of the release footprint were collected from surface materials (0 feet bgs). Analytical results associated with samples collected as part of the COG assessment activities indicated all samples from locations within the approximate release footprint (T-1 to T-6), except T-7, had chloride contents above Site RRALs to a maximum depth of 5 feet bgs. Additionally, analytical lab results associated with locations T-10 and T-11, collected outside the approximate release extent, had elevated chloride levels above Site RRALs. COG sample locations are presented in Figure 3.

COG proposed the following activities to address the release:

- "The areas of T-3 and T-4 and T-6 will be excavated to a depth of approximately 1.0' to 2.0' below surface.
- The areas of T-1, T-2 and T-5 will be excavated to an approximate depth of 4.0', 6.0' and 3.0' respectively
- In the perimeter areas of T-10 and T-11, all of the chlorides above the RAL will be removed from the area and sampled for confirmations.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be clean backfilled material to grade."

In addition to the above listed excavations, COG proposed to collect soil confirmation samples from excavated areas and submit the samples to an accredited laboratory for testing of chloride content. Floor samples would be collected as 5-point composite samples form an area of 50 feet by 50 feet, each composite sample representing 2,500 square feet. COG estimated 8 to 9 total composite floor samples would be collected, with additional samples being collected as needed. Sidewall composite samples would be collected every 200 square feet. Discrete soil samples would be collected from excavated areas if any laboratory analytical results indicated exceedances of Site RRALs. The Work Plan was submitted to the NMSLO on 11/12/2018, but it was not submitted through the OCD Online Fee Portal until 4/11/2023.

NMOCD REJECTION & EXTENSION REQUESTS

The Work Plan was rejected by the NMOCD on April 19, 2023. No record of the correspondence regarding the rejection of the Work Plan is available through the NMOCD Online Imaging Portal. However, the NMOCD Permitting website does provide the response given by the NMOCD regarding the COG Work Plan.

"Horizontal delineation is incomplete. T8 through T14 were not analyzed from BTEX or TPH and T10-T11 also were above the closure standard of 600 mg/kg for chloride. The area of T7 will need to be remediated as TPH levels were above the remediation standard o 100 mg/kg. The proposed excavation depths for T1, T2, T5, T10, and T11 are not adequate. The excavation depths will need to meet the closure criteria. Bottom hole confirmation samples representative of 2,500 square feet is not approvable. 2RP-4523

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closed. Refer to incident #NAB1735335003 in all future communication. Submit a complete report though the OCD Permitting website by 7/19/2023."

Two separate 90-day extension requests have since been submitted and approved by the NMOCD. The first, requested on July 27, 2023, was due to the NMSLO recent permitting requirements for water/soil boring exploration permits. The extension request was approved by Brittany Hall of the NMOCD via email on the on July 27, 2023, providing a new due date of October 16, 2023. A second extension request was submitted on October 23, 2023 due to NMSLO Right of Entry and Cultural Survey requirements, as well as delays for scheduling assessment activities. Brittany Hall of the NMOCD approved the extension request on October, 27 2023, providing a new due date of January 15, 2024. NMOCD correspondence is included in Appendix C.

SITE ASSESSMENT ACTIVITIES AND SUMMARY OF SAMPLING RESULTS

Based on the comments provided by the NMOCD in the rejection of the COG Work Plan, on November 7 and 8, 2023, Tetra Tech personnel were onsite to oversee the installation of a total of thirteen (13) borings utilizing an air rotary truck-mounted drilling rig, to a maximum depth of 15 feet bgs. Seven (7) boreholes were installed within the release extent (BH-1 through BH-7) ranging in depths between 3 and 7 feet bgs to vertically delineate the release. Six (6) boreholes (B-8 through B-13) were installed around the exterior of the release footprint, each to a depth of 1-foot bgs, to horizontally delineate the release. Borehole locations are presented in Figure 4. Photographic documentation from the Site assessment activities is presented in Appendix D.

A total of thirty-one (31) soil samples were collected from the thirteen (13) boreholes and submitted to Cardinal Laboratories in Hobbs, NM to be analyzed for chloride via EPA Method SM4500CI-B, BTEX via EPA Method 8021B, and TPH via EPA Method 8015M. Copies of the laboratory analytical reports are included as Appendix E.

Analytical results associated with samples collected from all boreholes located within the release footprint, except BH-5, indicated elevated chloride levels above the Site RRALs of 600 mg/kg at sample intervals down to 3 feet bgs. All other analytical results associated with samples collected below 3 feet bgs on the interior of the release footprint and all analytical results associated with samples collected on the exterior of the footprint were below Site RRALs.

WORK PLAN (2024) & NMOCD REJECTION

An initial Work Plan was drafted based on the collected data and submitted to the NMOCD with PO Number THFTO-240115-C-1410 on January 15, 2024. As the release impact is fully delineated, and the release footprint is in areas immediately under or around production equipment, the report contained language regarding leaving impacted soils in place. On February 2, 2024, Ashley Maxwell of the NMOCD rejected the Initial Work Plan. The reason for the rejection is as follows:

• Resubmit report as a work plan only. The area requested for deferral will need to subsequently submitted upon remediation of the areas outside of the requested deferred area.

REVISED REMEDIATION WORK PLAN

Based on the NMOCD rejection, the Work Plan has been revised. ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 3 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements/RRALs. Heavy equipment will come no more than 4 ft from any surface or subsurface pressurized lines.

Sections of the lease pad within the release footprint contain production equipment, large permanent structures, and electrical and/or pressurized lines where remediation may warrant a major facility

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deconstruction. Excavating near production equipment via aggressive excavation methods (i.e., backhoe/track hoe, excavators, hydraulic hammer, etc.) could result in a potentially hazardous condition, and/or property damage. If these aggressive activities would generate hazards and create safety risks, then those areas immediately under or around production equipment will be identified during the remedial action, and samples will be collected to determine the concentrations of the soil beneath that equipment.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. 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. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 2,500 cubic yards.

As mentioned, this REVISED Work Plan will be provided to the Environmental Compliance Office (ECO) for review and approval, Prior to beginning remedial activities, the NMSLO office will be notified via email in accordance with stipulated NMSLO guidelines.

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. Twenty (20) confirmation floor samples and thirty-five (35) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 22,250 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 laboratory for analysis of chloride via EPA Method SM4500CI-B or 300.0, BTEX via EPA Method 8021B, and TPH via EPA Method 8015M. Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

CONCLUSION

Based on the additional assessment activities, this REVISED Release Characterization and Remediation Work Plan encompasses the most up to date site conditions and collected data. 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 and NMSLO ECO.

The Work Plan for the subsequent Incident (NAB1735335003) at the Site will be submitted under separate cover, along with proper fee application. As the release footprints coincide and the remediation work plan of one incident encompasses the other, should this Work Plan gain NMOCD approval prior to the NAB1735335003 Work Plan, COPC requests the opportunity to remediate both release extents with the approval of this Work Plan.

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ConocoPhillips

Final remediation and reclamation of the remaining surficial impacts shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities at the Site, please call me at (509) 768-2191 or Christian at (512) 288-6281.

Sincerely, **Tetra Tech, Inc.**

Sam R. Chama, G.I.T. Project Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips Ms. Tami Knight, NMSLO ECO

Christian M, Llull, P.G. Program Manager

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LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 COG Approximate Release Extent and Site Assessment
- Figure 4 Tetra Tech Approximate Release Extent and Site Assessment
- Figure 5 Proposed Remediation Extent

Tables:

- Table 1 Summary of Analytical Results 2018 Soil Assessment
- Table 2 Summary of Analytical Results 2023 Soil Assessment

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

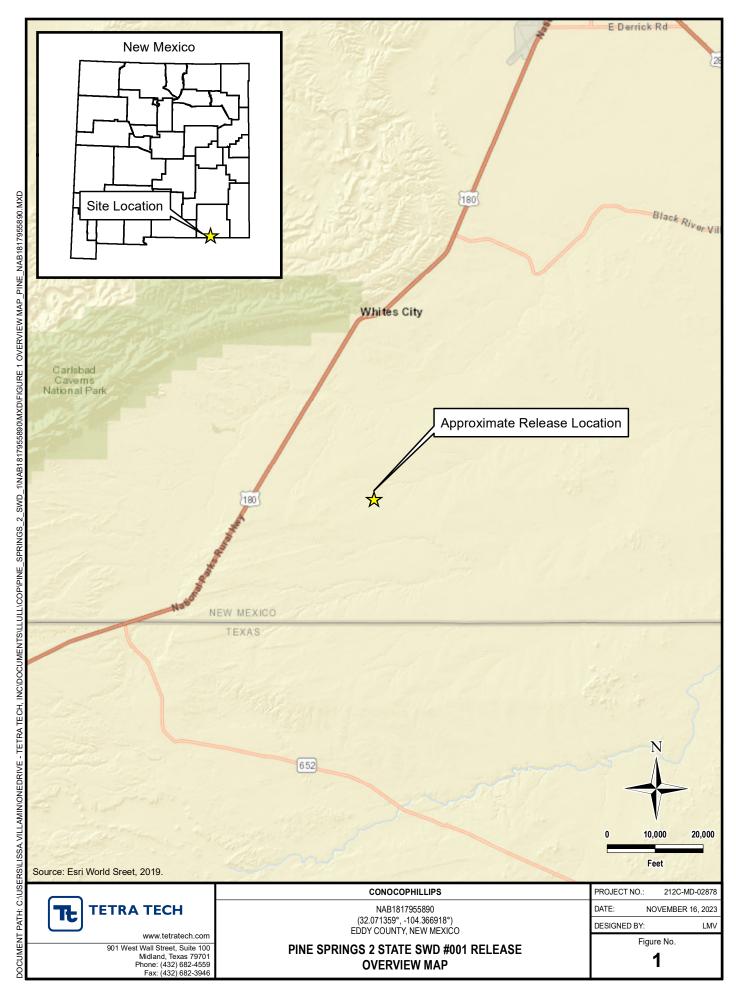
Appendix C – Regulatory Correspondence

- Appendix D Photographic Documentation
- Appendix E Laboratory Analytical Data

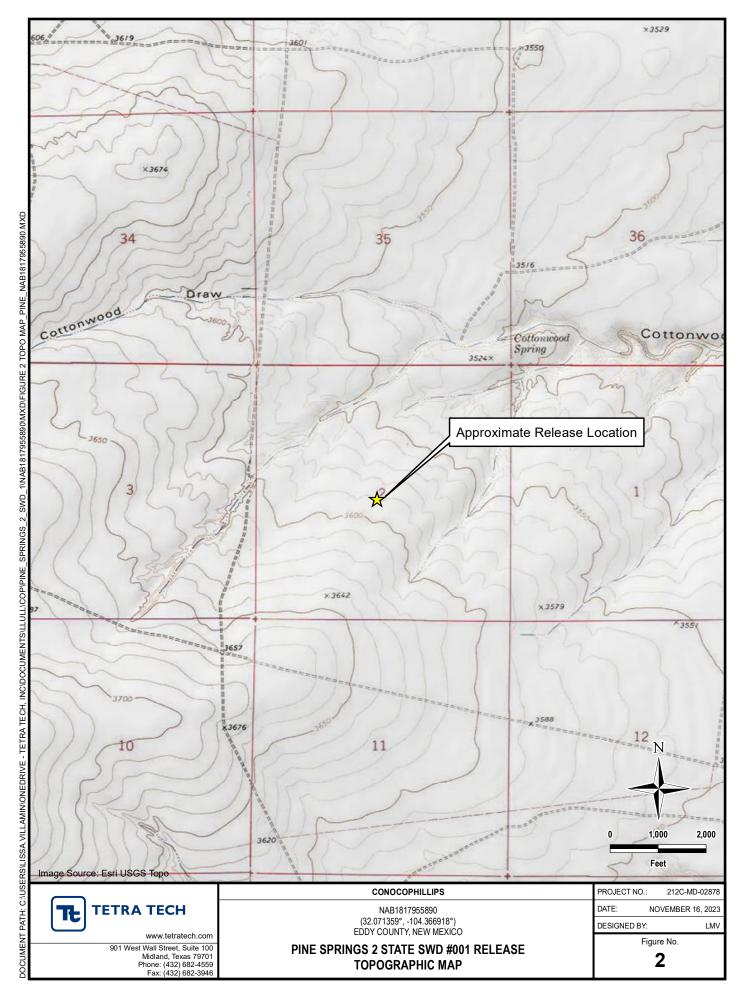
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FIGURES

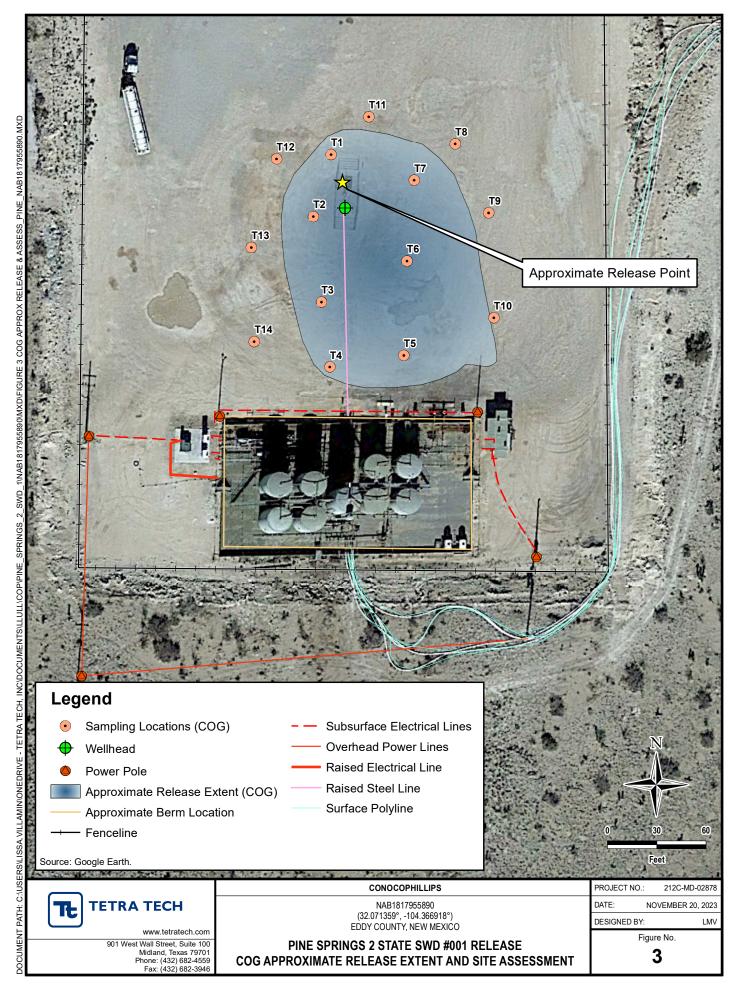
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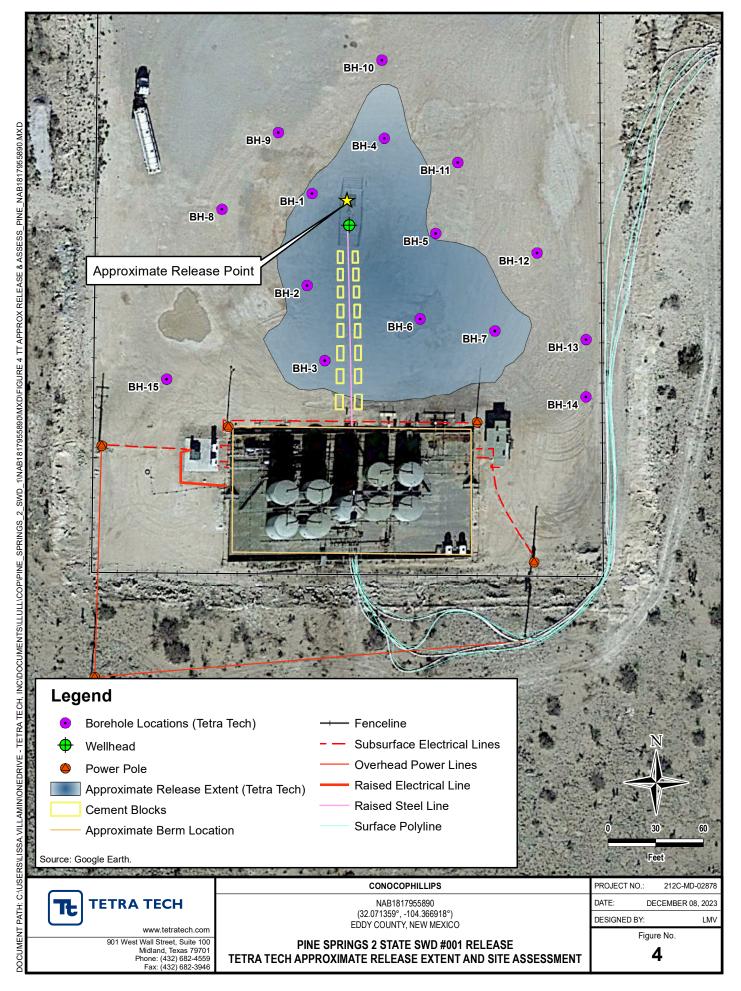


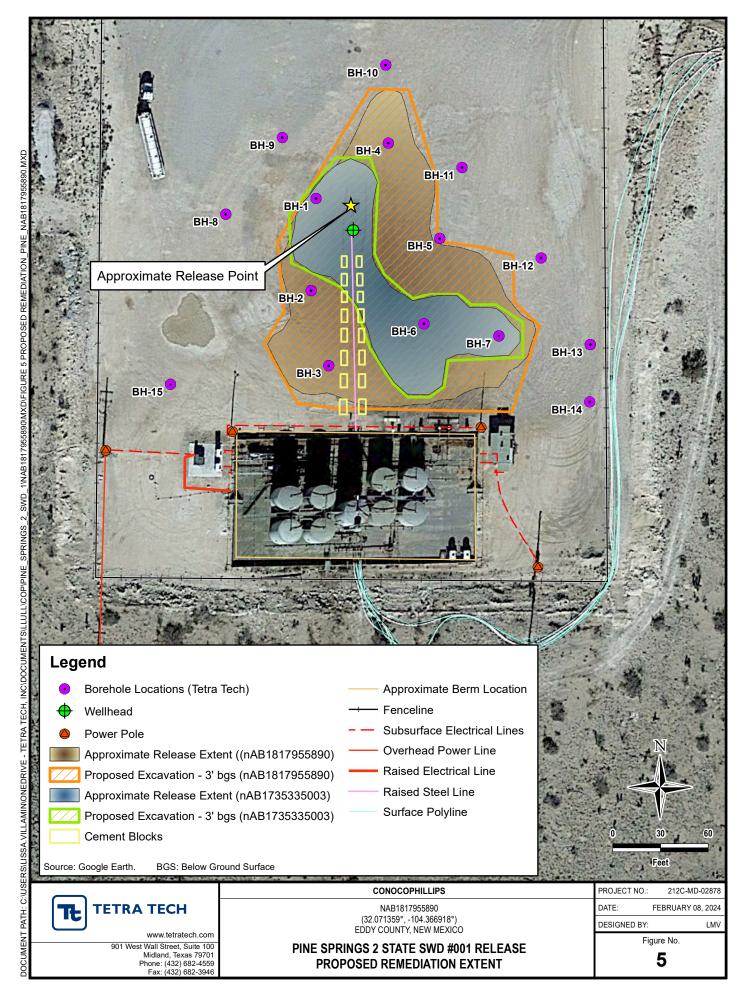
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NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

- GRO Gasoline range organics
- DRO Diesel range organics

MRO Motor Oil range organics

NA Sample not analyzed for parameter

- 1 EPA Method 300.0
- 2 EPA Method 8021B
- 3 Method SW8015 Mod

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements. Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 1 SUMMARY OF ANALYTICAL RESULTS 18 SOIL REMEDIATION - NAB1817955890/2RP-4832 CONOCOPHILLIPS PINE SPRINGS 2 STATE SWD #1 RELEASE EDDY COUNTY, NM

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TABLE 2 SUMMARY OF ANALYTICAL RESULTS 2023 SOIL ASSESSMENT - NAB1817955890/2RP-4832 CONOCOPHILLIPS PINE SPRINGS 2 STATE SWD #1 RELEASE EDDY COUNTY, NM

				in a December							BTEX	2							Т	PH ³		
Comple ID	Sample Sample		Field Screer	ning Results	Chloride ¹		Donaon		Toluer		Ethylhon		Total Vul	0.000	Total BTEX	GRO		DRO		EXT DF	80	Total TPH
Sample ID	Sample Date		Chloride	Titration			Benzen	le	Toluen	le	Ethylben	zene	Total Xyl	enes	TOTALBLEX	C ₆ - C ₁₀		₀ > 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	Q	mg/kg
		0-1'	-	-	2,440		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		11.2		<10.0		11.2
		2-3'	-	-	1,840		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-1	11/8/2023	3-4'	-	420	544		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		5-6'	-	400	272		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
	 	6-7'	-	200	256		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
	/ . /	0-1'	-	-	1,620		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-2	11/8/2023	2-3'	-	- 225	1,060		<0.050		<0.050		<0.050 <0.050		<0.150		<0.300 <0.300	<10.0		<10.0		<10.0 <10.0		-
	<u> </u>	3-4'	-	225	304		<0.050		<0.050				<0.150			<10.0		<10.0				-
BH-3	11/8/2023	0-1'	-	-	608		<0.050		<0.050		< 0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		2-3'	-	-	528		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		0-1'	-	-	1,810		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-4	11/7/2023	2-3'	-	-	912		<0.050		< 0.050		< 0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		3-4'	-	420	512		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-5	11/8/2023	0-1'	-	-	80		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		2-3'	-	-	304		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		0-1'	-	-	1260		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
	/ . /	2-3'	-	-	608		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-6	11/8/2023	3-4'	-	320	112		<0.050		<0.050		< 0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
		5-6' 6-7'	-	400 200	48 32		<0.050 <0.050		<0.050 <0.050		<0.050 <0.050		<0.150 <0.150		<0.300 <0.300	<10.0 <10.0		<10.0 <10.0		<10.0 <10.0		-
	<u> </u>	-																				
BH-7	11/8/2023	0-1'	-	-	1200		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
ВП-7	11/8/2023	2-3' 3-4'	-	- 300	1120 352		<0.050 <0.050		<0.050 <0.050		<0.050 <0.050		<0.150 <0.150		<0.300 <0.300	<10.0 <10.0		<10.0 <10.0		<10.0 <10.0		-
	44/7/2022		1			<u> </u>																
BH-8	11/7/2023	0-1'	-	540	368		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-9	11/7/2023	0-1'	-	300	160		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-10	11/7/2023	0-1'	-	275	128		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-11	11/8/2023	0-1'	-	375	288		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-12	11/8/2023	0-1'	-	400	240		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-13	11/8/2023	0-1'	-	220	240		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-14	11/8/2023	0-1'		200	288		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
BH-15	11/8/2023	0-1'	-	400	272		<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		-
NOTES:						1				1			I	1					1		1	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B 1

2 Method 8021B

Method 8015M 3

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.

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APPENDIX A C-141 Forms

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eceived by OCD: 2/22/2024 11:34:06 PM		RECEIVED	Page 18 of					
District II 811 S. First St., Artesia, NM 88210 Energy Minerals	New Mexico and Natural Resourc		Form C-141 Revised April 3, 2017					
District IV District IV 1220 Sout	rvation Division h St. Francis Dr. e, NM 87505	DISTRICT UPARTESIA 0.0	ince with 19.15.29 NMAC.					
Release Notification and Corrective Action								
NAB1817955890	OPERATOR	🛛 Initial Re	port 🔲 Final Report					
Name of Company: COG Operating, LLC (OGRID #229137)	Contact:	Robert McNeill						
Address: 600 West Illinois Avenue, Midland, TX 79701 Facility Name: Pine Springs 2 State SWD #001	Telephone No. Facility Type: Well He	432-683-7443 ead						
Surface Owner: State Mineral Owner:		API No. 30-	015-42348					
		<u>AI</u> 110.30-	015-42548					
	N OF RELEASE	the East/West Line	County					
K 02 26S 25E 2,500	South 2,500		Eddy					
Latitude 32.071434 Lo	ongitude -104.3667831	NAD83						
NATURE	OF RELEASE							
Type of Release	Volume of Release	Volume Recov						
Produced Water Source of Release	25 bbl. Date and Hour of Occu	urrence Date and Hour	20 bbl. of Discovery					
Hammer Union	June 25, 2018 2:12pm							
Was Immediate Notice Given?	If YES, To Whom? Mike Bratcher – NMC	CD						
	Crystal Weaver – NM	OCD						
By Whom? Sheldon Hitchcock	Ryan Mann – SLO Date and Hour June 2	5, 2018 3:29pm						
Was a Watercourse Reached?	If YES, Volume Impac	cting the Watercourse.						
If a Watercourse was Impacted, Describe Fully.*								
n a waterourse was impacted, Describer runy.								
Describe Cause of Problem and Remedial Action Taken.*								
The release was caused by the O-ring in the hammer union failing. The O	D-Ring has been replaced.							
Describe Area Affected and Cleanup Action Taken.*	······	· · · · · · · · ·						
The release was on location. A vacuum truck was dispatched to remove possible impact from the release and we will present a remediation work I hereby certify that the information given above is true and complete to	plan to the NMOCD for a	pproval prior to any significant	nt remediation activities					
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report	notifications and perform he NMOCD marked as "F ite contamination that pose	corrective actions for releases inal Report" does not relieve t e a threat to ground water, sur	which may endanger he operator of liability face water, human health					
federal, state, or local laws and/or regulations.								
Signature: Deann Opeant	Signed Approved by Environme	By M/4 Denne	LIT-					
Printed Name: DeAnn Grant								
Title: HSE Administrative Assistant	Approval Date: 42	1/18 Expiration Date:	NIA					
E-mail Address: agrant@concho.com	Conditions of Approval:	P) Attached A	ttached Alan 1021					
Date: June 27, 2018 Phone: (432) 253-4513 * Attach Additional Sheets If Necessary	M		401-4006					

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/27/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4832 has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District <u>2</u> office in <u>ARTESIA</u> on or before <u>7/27/2018</u>. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

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

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

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

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

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

Bratcher, Mike, EMNRD

From:	DeAnn Grant <agrant@concho.com></agrant@concho.com>
Sent:	Wednesday, June 27, 2018 1:16 PM
То:	Bratcher, Mike, EMNRD; Mann, Ryan
Cc:	Weaver, Crystal, EMNRD; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell; DeAnn
	Grant
Subject:	(C-141 Initial) Pine Springs 2 State SWD #001 (30-015-42348) 06-25-2018
Attachments:	(C-141 Initial) Pine Springs 2 State SWD #001 (30-015-42348) 06-25-2018.pdf

Mr. Bratcher/Mr. Mann,

Please find the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank you,

DeAnn Grant

HSE Administrative Assistant <u>agrant@concho.com</u> COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-253-4513 | Main: 432.683.7443



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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 22 of 103

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas 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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

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

Received by OCD: 2/22/2	024 11:34:06 PM State of New Me	vico		Page 23 of 103
			Incident ID	
Page 4	Oil Conservation D	vision	District RP	
			Facility ID	
			Application ID	
regulations all operators and public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations.	formation given above is true and comp re required to report and/or file certain re nment. The acceptance of a C-141 repo igate and remediate contamination that p of a C-141 report does not relieve the o	elease notifications and perform rt by the OCD does not relieve t pose a threat to groundwater, sun perator of responsibility for com	corrective actions for rele he operator of liability she face water, human health apliance with any other fee	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
email:		Telephone:		
OCD Only Received by:		Date:		

Received by OCD: 2/22/2024 11:34:06 PM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
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 con	firmed as part of any request for deferral of remediation					
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.						
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health	the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:	Title:					
Signature:	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved					
Signature:	Date:					

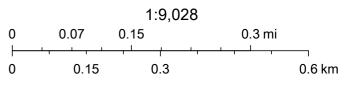
APPENDIX B Site Characterization Data

OCD Waterbodies Map



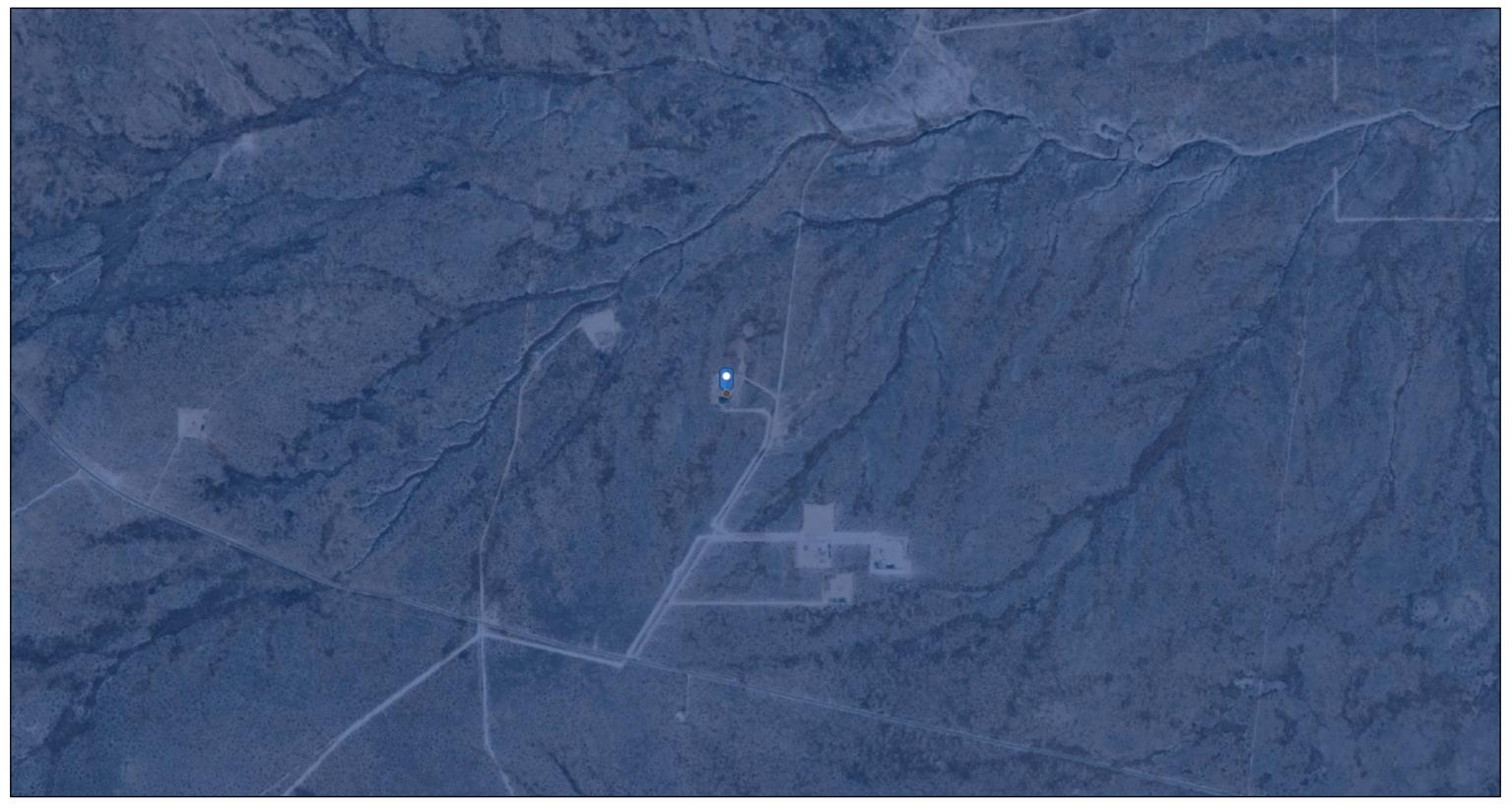
10/28/2022, 8:25:09 AM

OSE Streams

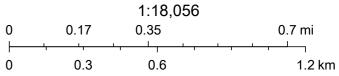


Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar, NM OSE

OCD Karst Map



10/28/2022, 8:18:43 AM Karst Occurrence Potential High



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar

Received by	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)	(0					2=NE st to la	3=SW 4=S rgest) (N	E) IAD83 UTM in r	neters)	(In feet)	
	POD Sub-		9 0	2 9							Depth	Depth	Water
POD Number	Code basin C	ounty	641	64	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column
C 03321	С	ED	4	1 1	11	265	25E	559375	3547431	1152	150	23	127
			Average Depth to							Water	23	feet	
										Minimum	Denth	23	feet
											Deput		

UTMNAD83 Radius Search (in meters):

Easting (X): 559752.15

Northing (Y): 3548520.63

Radius: 1500

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 Regulatory Correspondence

Chama, Sam

From:	Knight, Tami C. <tknight@slo.state.nm.us></tknight@slo.state.nm.us>
Sent:	Monday, June 26, 2023 8:06 PM
To:	Dickerson, Ryan
Cc:	Llull, Christian; Chama, Sam
Subject:	RE: Pine Springs 2 State SWD #001 - DOR 6/25/2018 - Incident ID nAB1817955890
Follow Up Flag:	Follow up
Flag Status:	Completed

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Ryan,

ECO agrees with NMOCD's denial of the original workplan and agrees with Tetra Tech's additional proposed delineation work. However, we need the following questions addressed prior to any field work:

- 1. What are the sampling intervals for the proposed soil borings?
- 2. Please state the sampling methods and analytical methods for each soil sample collected.
- 3. Please address how the borings will be backfilled?

I have a question outside of the norm. Why does the site have to be delineated before you start the remediation excavation? Will OCD not approve delineation while excavating? You have a good idea of what needs to be removed already and we know once the excavation gets opened up that the excavation is likely to change especially since you are on high karst. I was just curious if you have ever received clarification from NMOCD on this matter. My assumption is because OCD rules say for remediation plans the site has to be delineated horizontally and vertically in its entirety.

Thank you

Tami Knight, CHMM Environmental Specialist SLO Surface ECO Mobile: (505) 670-1638 tknight@slo.state.nm.us



From: Dickerson, Ryan <Ryan.Dickerson@tetratech.com>
Sent: Thursday, May 18, 2023 10:35 AM
To: SLO Spills <spills@slo.state.nm.us>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Chama, Sam <SAM.CHAMA@tetratech.com>; Knight, Tami C.

<tknight@slo.state.nm.us>

Subject: [EXTERNAL] Pine Springs 2 State SWD #001 - DOR 6/25/2018 - Incident ID nAB1817955890

Tami Knight,

Below are site details associated with Incident ID nAB1817955890 that occurred at the Pine Springs 2 State SWD #001 (API #30-015-42348).

This incident was subsequent to Incident ID nAB1735335003 and occurred on the same general area of the lease pad.

Incident ID nAB1817955890 Details:

- Release Location: 32.071359°, -104.366918°
- Site is located in Eddy County, NM.
- Land Ownership: State of NM
- The Site is in an area of high karst potential.
- According to the C-141, it appears the release was discovered on 6/25/2018.
 - The release consisted of 25 barrels of produced water, of which 20 barrels were recovered.
 - The release occurred due to an O-ring in the hammer union failing.
- The released fluids remained on the lease pad.
- COG conducted soil sampling of the release area in September 2018.
- Based on the sampling results, COG prepared and submitted a Remediation Work Plan (see attached) to the NMSLO on 11/12/2018 for the subject incident and a previous release (nAB1735335003) occurring in the same area.
- The Work Plan was submitted through the OCD Online Fee Portal on 4/11/2023.
- The Work Plan was rejected by the NMOCD on 4/19/2023 based on the following comments:
 - "Horizontal delineation is incomplete. T8 through T14 were not analyzed from BTEX or TPH and T10-T11 also were above the closure standard of 600 mg/kg for chloride. The area of T7 will need to be remediated as TPH levels were above the remediation standard of 100 mg/kg. The proposed excavation depths for T1, T2, T5, T10, and T11 are not adequate. The excavation depths will need to meet the closure criteria. Bottom hole confirmation samples representative of 2,500 square feet is not approvable. 2RP-4832 closed. Refer to incident #NAB1817955890 in all future communication. Submit a complete report through the OCD Permitting website by 7/19/2023."

Based on the NMOCD rejection of the Work Plan, Tetra Tech, on behalf of ConocoPhillips, proposes to install soil borings as shown in the attached .kmz file to complete delineation of the release area.

- BH-1 and BH-2 will be drilled to an approximate depth of 20 feet below ground surface.
- AH-1 through AH-8 will be installed to a depth of 1 foot below ground surface.

Based on the above site details and proposed boring locations, is Tetra Tech cleared to move forward with the release assessment?

Thanks,

Ryan

Ryan Dickerson | Project Geologist Cell +1 (512) 217-7254 | ryan.dickerson@tetratech.com

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

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Chama, Sam

From:	Velazquez, Amy <avelazquez@slo.state.nm.us></avelazquez@slo.state.nm.us>
Sent:	Tuesday, August 15, 2023 10:23 AM
То:	Chama, Sam; Crosby, Faith; Armijo, Melissa
Cc:	Carroll, Ryan; SLO Spills
Subject:	RE: Permit Inquiry - Pine Springs SWD

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Good morning Sam,

Faith is correct regarding our current approach to the releases being contained within an active lease footprint. If there is any need whatsoever to conduct any activities or access any State Trust Lands outside of the actively leased area, you will need to apply for a right of entry permit for remediation with the ROW Division.

I am CC'ing our ECO division above (eco@slo.state.nm.us) as they are a great resource for remediation issues.

Please let us know if we can assist further.

Sincerely, Amy



Rights of Way Leasing Manager **Rights of Way Division** Office Phone: 505.827.5789

New Mexico State Land Office Physical: 310 Old Santa Fe Trail Santa Fe, NM 87501 Post Office Box:

IP.O. Box 1148, Santa Fe, NM 87504-1148 avelazquez@slo.state.nm.us nmstatelands.org

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From: Chama, Sam <SAM.CHAMA@tetratech.com>
Sent: Tuesday, August 15, 2023 9:13 AM
To: Crosby, Faith <fcrosby@slo.state.nm.us>; Velazquez, Amy <avelazquez@slo.state.nm.us>; Armijo, Melissa <marmijo@slo.state.nm.us>
Cc: Carroll, Ryan <RYAN.CARROLL@tetratech.com>
Subject: [EXTERNAL] Permit Inquiry - Pine Springs SWD

Hi Faith,

Thank you for speaking to me last week about the scenario we're encountering at the Pine Springs SWD Site.

nAB1735335003 Background

- Site is in Eddy County, NM.
- Land is owned by the State of NM
- Operator is SOLARIS WATER MIDSTREAM, LLC
- Release Location: 32.071066°, -104.366799°
- 2RP-4523 / nAB1735335003
 - According to the C-141, it appears the release was discovered on 12/12/2017.
 - The release consisted of:
 - 6 barrels (bbls) of produced water, of which 0 bbls were recovered.
 - The release occurred due to a valve being left in the wrong position on the trucking load line.

nAB1817955890 Background

- Site is in Eddy County, NM.
- Land is owned by the State of NM
- Operator is SOLARIS WATER MIDSTREAM, LLC
- Release Location: 32.071359°, -104.366918°
- 2RP-4832 / nAB1817955890
 - According to the C-141, it appears the release was discovered on 6/25/2018.
 - The release consisted of:
 - 25 barrels (bbls) of produced water, of which 20 bbls were recovered.

The permitting process has changed from what was understood initially. Both releases remained on pad, no part of the release extent entered the pastureland. You informed me that we did not need a permit from the NMSLO Water Bureau in order to conduct an assessment (auger sampling) at this site due to the releases being on pad and an active lease. Faith, can you confirm this in writing please?

@Armijo, Melissa and @Velazquez, Amy can you provide insight into whether we would require a right of entry from the NMSLO CRD in order to perform our assessment operations?

ConocoPhillips (COP) is not the lease holder, Solaris Midstream is the lease holder. If a permit is not required from the CRD, and because this is not a COP lease, would we be dealing directly with Solaris Midstream?

Thank you,

Sam Chama, G.I.T. | Staff Geologist Mobile +1 (509) 768-2191 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | <u>sam.chama@tetratech.com</u> Tetra Tech | *Leading with Science*[®] | OGA 8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | <u>tetratech.com</u>

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Stephanie Garcia Richard COMMISSIONER State of New Mexico Commissioner of Public Lands 310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

October 23, 2023

COG Operating, LLC 2208 West Main Street Artesia, NM 88210

Attn: Monti Sanders

Re: Right-of-Entry Permit No.: RE-6734/Pine Springs 2 St SWD #1

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

Please see the attached conservation memorandum for conservation measures.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Amy Velazquez of my staff at (505) 827-5789.

Sincerely,

James S. Bordegaray Director, Commercial Resources Division

JSB/alv

Received by OCD: 2/22/2024 11:34:06 PM



NEW MEXICO STATE LAND OFFICE Commissioner of Public Lands Stephanic Garcia Richard New Mexico State Land Office Building P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT CONTRACT NO. RE – 6734

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

COG Operating LLC 2208 West Main Street Artesia, NM 88210

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a produced water release on or adjacent to the site of the Pine Springs 2 St SWD #1 (Incident ID # 2RP-4523) and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in Eddy County, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
02	26S	25E	NE4SW4	Eddy	32.071434,-104.3667831

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

Released to Imaging: 2/26/2024 1:16:46 PM

3. FEES

- \$ 50.00 Application Fee
- \$ 500.00 Permit Fee
- \$ 550.00 Total Fee

4. CONDITIONS OF USE

A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.

B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.

C. No sale of <u>any</u> material extracted from the Premises is allowed under this ROE.

D. Permittee shall observe all applicable federal, state, and local laws and regulations.

E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.

F. Permittee shall not block or disrupt roads or trails commonly in use.

G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.

H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.

I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.

J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.

K. Personnel present on Premises: ConocoPhillips personnel and contractors.

L. Equipment and materials present on Premises: Vehicles, heavy equipment, and associated materials.

5. SITE CONDITIONS

A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.

B. Access to the Premises shall be over existing roads.

C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

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RE-6734

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

m

DA UNIC

PERMITTEE SIGNATURE

DATE: 10/19/23

Ryan D. Owen

Attorney-in-fact, COG Operating LLC

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY:

Stephanie Garcia Richard Commissioner of Public Lands

10/23/2023 DATE: ____

Chama, Sam

Subject: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

Ryan,

The 90-day extension request for **nAB1817955890 and nAB1735335003** is approved. The new due date for both incidents will be October 16, 2023.

Please Include this e-mail correspondence in the remediation and/or closure report when submitting to the OCD Permitting website.

Thank you, **Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Wells, Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>
Sent: Thursday, July 27, 2023 10:59 AM
To: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Subject: FW: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

From: Carroll, Ryan <<u>RYAN.CARROLL@tetratech.com</u>>
Sent: Thursday, July 27, 2023 9:40 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Subject: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

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To Whom It May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until October 16, 2023) to complete additional assessment activities and associated reporting for the Pine Springs State SWD #01 release sites (**nAB1817955890 and nAB1735335003**). The releases were discovered on December 17, 2017, and June 25, 2018, respectively. A Delineation Work Plan was submitted the New Mexico Oil Conservation Commission (NMOCD) on November 12, 2018, and the Work Plan was resubmitted on December 5, 2022. The NMOCD responded on April 14, 2023, and stated horizontal delineation is incomplete and to submit a complete report by July 19, 2023.

The release footprint is located on State Trust lands and is located on a Salt Water Disposal (SWD) Easement. The New Mexico State Land Office has recently begun enforcing application and permitting requirements per Rule 12 (19.2.12 NMAC) for Water/Soil Boring Exploration Permits. Any intrusive activities (i.e. # soil borings to be drilled, sampling to be

conducted, etc.) must be permitted through the Water Bureau, Oil, Gas, and Minerals Division, New Mexico State Land Office.

Tetra Tech and ConocoPhillips experienced a delay in scheduling assessment at the Pine Springs State SWD #01 Releases while in the process of complying with this rule. The allocation of resources required to complete the Water/Soil Boring Exploration permit process are demanding and require additional time for coordination with regulatory personnel. Tetra Tech and ConocoPhillips are prepared to initiate additional assessment activities at the site once we obtain the Soil Boring Exploration Permit. We need additional time for the permitting process in order to complete delineation activities and submit a revised Work Plan.

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

Thank you,

Ryan

Ryan Carroll | Senior Project Manager | Tetra Tech Direct (832) 251-5161 | Mobile (617) 461-3533

Chama, Sam

From:	Carroll, Ryan
Sent:	Monday, December 4, 2023 11:00 AM
To: Subject:	Chama, Sam FW: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Friday, October 27, 2023 8:41 AM
To: Carroll, Ryan <RYAN.CARROLL@tetratech.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Llull, Christian <Christian.Llull@tetratech.com>
Subject: RE: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

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Good morning Ryan,

Thank you for the update.

The extension requests for incident numbers nAB1817955890 and nAB1735335003 are approved. The new due date is January 15, 2024.

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.

Thank you, **Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

From: Carroll, Ryan <<u>RYAN.CARROLL@tetratech.com</u>>
Sent: Friday, October 27, 2023 6:53 AM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Wells, Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>;
Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Subject: RE: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

Hi Brittany,

The permit process has been initiated. I have confirmed that we have received the ROE permit, which is attached for reference.

Thanks, Ryan

From: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Sent: Wednesday, October 25, 2023 8:57 AM
To: Carroll, Ryan <<u>RYAN.CARROLL@tetratech.com</u>>
Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Wells, Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>;
Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Subject: RE: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

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Good morning Ryan,

The previous extension was requested and approved on July 27, 2023. Could you clarify if the permitting process has been initiated and ConocoPhillips/Tetra Tech are just waiting for the approvals from SLO?

Thank you,

Brittany Hall • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/

From: Carroll, Ryan <<u>RYAN.CARROLL@tetratech.com</u>>
Sent: Monday, October 23, 2023 7:24 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Subject: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

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To Whom It May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until January 15, 2024) to complete additional assessment activities and associated reporting for the Pine Springs State SWD #01 release sites (**nAB1817955890 and nAB1735335003**). The releases were discovered on December 17, 2017, and June 25, 2018, respectively. A Delineation Work Plan was submitted the New Mexico Oil Conservation Commission (NMOCD) on November 12, 2018, and the Work Plan was resubmitted on December 5, 2022. The NMOCD responded on April 14, 2023, and stated horizontal delineation is incomplete and to submit a complete report by July 19, 2023. An extension request was previously approved due to delay related to permitting, and the new due date was October 16, 2023.

The release footprint is located on State Trust lands and is located on a Salt Water Disposal (SWD) Easement. The New Mexico State Land Office has recently begun enforcing application and permitting requirements for Water/Soil Boring Exploration Permits, Right of Entry (ROE) and Cultural Surveys (per Rules 10, 12 and 24), and must be permitted through the Water Bureau, Oil, Gas, and Minerals Division and/or Commercial Resources Division of New Mexico State Land Office. For these releases, it is our understanding a ROE permit is required before we can initiate assessment activities.

Tetra Tech and ConocoPhillips experienced a delay in scheduling assessment at the Pine Springs State SWD #01 Releases as the ROE permit process is taking longer than anticipated. Tetra Tech and ConocoPhillips are prepared to initiate additional assessment activities at the site once we obtain the ROE Permit. We need additional time for the ROE permitting process in order to complete delineation activities and submit a revised Work Plan.

.

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

Thank you, Ryan

Ryan Carroll | Senior Project Manager | Tetra Tech Direct (832) 251-5161 | Mobile (617) 461-3533

From:	OCDOnline@state.nm.us
To:	Llull, Christian
Subject:	The Oil Conservation Division (OCD) has rejected the application, Application ID: 303605
Date:	Friday, February 02, 2024 9:27:45 AM

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

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1817955890, for the following reasons:

• Resubmit report as a work plan only. The area requested for deferral will need to subsequently submitted upon remediation of the areas outside of the requested deferred area.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 303605.

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

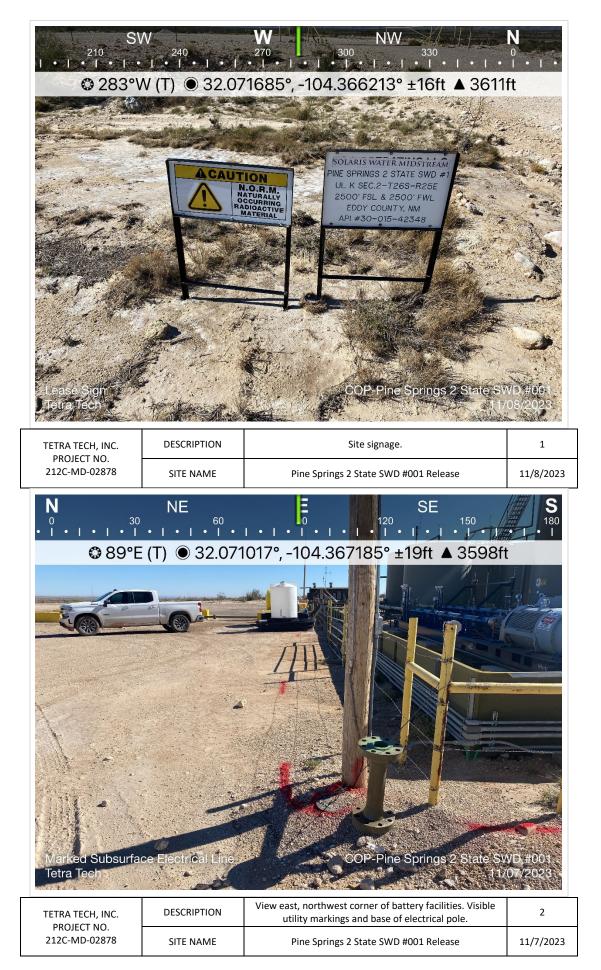
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

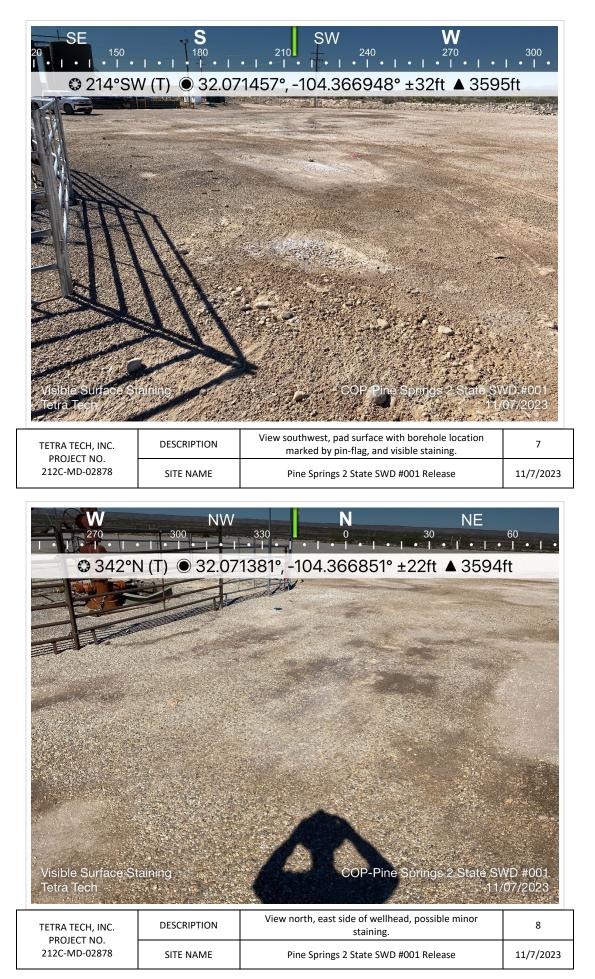
1220 South St. Francis Drive Santa Fe, NM 87505

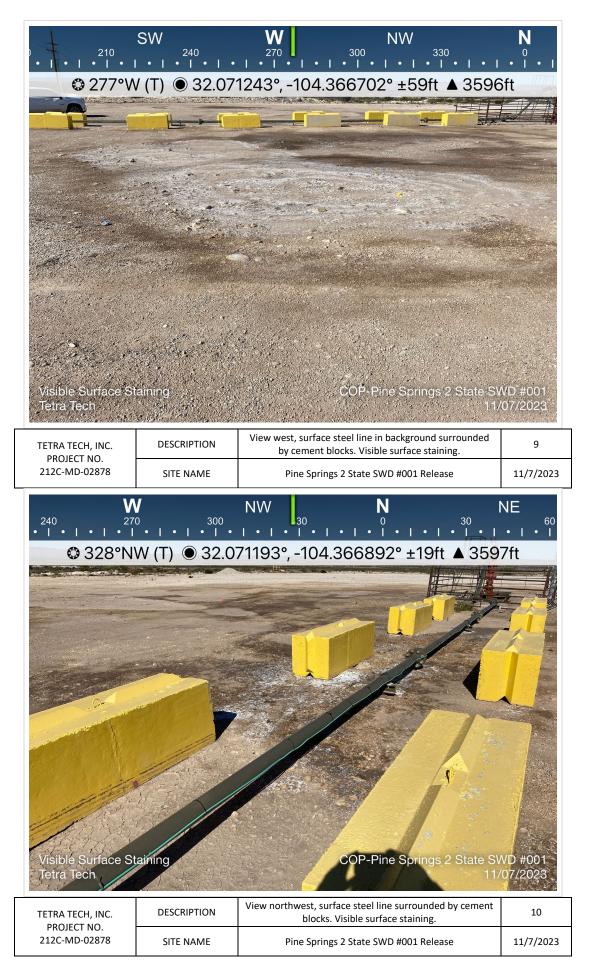
APPENDIX D Photographic Documentation













APPENDIX E Laboratory Analytical Data



November 14, 2023

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

RE: PINE SPRINGS 2 STATE SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (0-1') (H236152-01)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	11.2	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	117 :	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (2'-3') (H236152-02)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (3'-4') (H236152-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (5'-6') (H236152-04)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (6'-7') (H236152-05)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (0-1') (H236152-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (2'-3') (H236152-07)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 3 (0-1') (H236152-08)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 3 (2'-3') (H236152-09)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 4 (0-1') (H236152-10)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1810	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 4 (2'-3') (H236152-11)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 :	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 4 (3'-4') (H236152-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 5 (0-1') (H236152-13)

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	11/10/2023	ND	2.02	101	2.00	0.852	
Toluene*	<0.050	0.050	11/10/2023	ND	2.12	106	2.00	7.31	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.27	113	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.88	115	6.00	7.96	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 5 (2'-3') (H236152-14)

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	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (0-1') (H236152-15)

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	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	11/10/2023	ND	432	108	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*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (2'-3') (H236152-16)

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	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/10/2023	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	186	92.8	200	1.63	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	178	88.9	200	0.998	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	105 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (3'-4') (H236152-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (5'-6') (H236152-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (6'-7') (H236152-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (0-1') (H236152-20)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	124	48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (2'-3') (H236152-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (3'-4') (H236152-22)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	128 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (0-1') (H236152-23)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					
Surrogate: 1-Chlorooctane	106	48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (0-1') (H236152-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 10 (0-1') (H236152-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 11 (0-1') (H236152-26)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 (0-1') (H236152-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (0-1') (H236152-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (0-1') (H236152-29)

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	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/08/2023
Reported:	11/14/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 15 (0-1') (H236152-30)

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	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	188	94.2	200	2.53	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	199	99.6	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:		Relinquished By: Colton Bickerstaff	affiliates or successors arising o	PLEASE NOTE: Liability and Dama event shall Cardinal be liable for	10	9	8	ン	6	J-	1	N	2		Lab I.D. <i>H236/S</i> A	FOR LABUSE ONLY	Sampler Name: Colton Bickerstaff	Project Location: I	Project Name: Pin	Project #:	Phone #:	City: Austin	Address: 8911 Cap	Project Manager: Christian Llull	Company Name: Tetra Tech	
8 11 3					olton Bickerstaff	affinities or expressions of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neuronal Services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other Neu	ages. Cardinal's liability and client's exclusive incidental or consequental damages. incl	BH-4 (0-1')	BH-3 (2'-3')	BH-3 (0-1')	BH-2 (2'-3')	BH-2 (0-1')	BH-1 (6'-7')	BH-1 (5'-6')	BH-1 (3'-4')	BH-1 (2'-3')	BH-1 (0-1')	Sample I.D.		Iton Bickerstaff	Project Location: Eddy County, New Mexico	Project Name: Pine Springs 2 State SWD #001	212C-MD-02878 F	(512)565-0190 F		Address: 8911 Capital o Texas Hwy, Suite 2310	Christian Llull	etra Tech	101 East Ma (575) 393-2
	Observed Temp. °C Corrected Temp. °C	Time:	Date:	Time:250	Date: 11/9/23	ervices hereunder by Cardinal, reg	ive remedy for any claim arising wheth notuding without limitation, busines											I.D.			xico	#001	Project Owner:	Fax #:	State: TX	le 2310			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
	33		Received By:	P	Received By:	pardless of whether s	her based in contract or ss interruptions. loss	G 1	G 1	G 1	G 1	G 1	G . 1	G 1	G 1	G 1	G 1	(G)RAB OR (C)OMP. # CONTAINERS							Zip:				-2476
No No	Sample Condition Cool Intact		By:	Touron	By:	such claim is based upor	r tort, shall be limited to the of use, or loss of profits.	Х	X	X	Х	X	X	X	X	Х	X	GROUNDWATER WASTEWATER SOIL OIL	MATRIX				ConocoPhillips						,
P				1 BIL		numer by clent, its site any of the above state	amount paid by the client incurred by client its si	X	X	X	X	X	X	X	X	X	X	SLUDGE OTHER : ACID/BASE: ICE / COOL	PRESERV.	Fax #:	Phone #:	State:	ps City:	Address: EMAIL	Attn: Chr	Company	P.O. #:		
40	CHECKED BY: (Initials)	(/		11/1	d reasons or otherwise.	itent for the analyses. All claims to subsidiaries	11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023	11/7/2023		OTHER :	Η			Zip:		EMAIL	Attn: Christian Llull	Company: Tetra Tech		BILL TO	
Thermometer ID 7843 Correction Factor 9.5°C	Turnaround Time: Rush: NO, N/A		REMARKS:	All Results are emailed.	Verbal Result:					1								TIME	SAMPLING							~		•	
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to	Bacteria (only) Sample Condition			riease provide citia	I No		including those for negligence and any other cause whatsoever	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Chloride SM	45	00	CI-	B		_		_	_	AN	
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Ves Ves	9			SS: Christia	Add'I Phone #:		ned waived unless																					ANALYSIS REQUEST	
Ves Ves				il address: Christian,Lluil@tetratecn.com			made in writing and re					_							_			1					_	EST	l.
				cn.com			hall be deemed waived unless made in writing and received by Cardinal within 30 days after								_				_				8				_		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: Christian Llull								-	P.O. #:	#														-		_				
Address: 8911 Capital o Texas Hwy, Suite 2310	uite 2310								ň	pan	Y:]	Company: Tetra Tech												_				-		-
City: Austin	State: TX	Zip:						P	th	S	risti	Attn: Christian Llull												_						
Phone #: (512)565-0190	Fax #:							P	dd	ess	m	Address: EMAIL							_							_				
Project #: 212C-MD-02878	Project Owner:		i	2	ConocoPhillips	oPh	illip		City:										_		-									
Project Name: Pine Springs 2 State SWD #001	VD #001							_	State:	*		Zip:			1	B					_					_		-		
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Sampler Name: Colton Bickerstaff								-	Fax #:	:#						000								_						-
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12 BH-4 (3'-4')		G	1			Х	-	_	-	Х	~	11/7/2023		х	Х	Х								_		_				
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6 BH-6 (2'-3')		G	1			×	\vdash	-		X	r	11/7/2023		×	x	×								\vdash		-				
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Relinquished By: Colton Bickerstaff	Date: 11/9/23	Rec	Received By:	d By	1						6	111	Verbal Result:	email	Ves D	I No	ride Emai		I Pho	Add'l Phone #: address: Chris	stian			trate	ch.o	om				
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S.													and the state of t	1				_		No No Corrected Temp.*C	No	Corr	ected	Temp.	'n					

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech	(575) 393-23 Tetra Tech	(575) 393-2326 FAX (575) 393-2476	3-2476	4449 1 - 12 1 -	BILL TO	70			A	ANALYS	LYSIS REQUEST	UEST
Project Manager: Christian Llull	Christian Llull			P.0	P.O. #:				_	-		
dress: 8911 Ca	Address: 8911 Capital o Texas Hwy, Suite 2310	2310		Co	Company: Tetra Tech	ch			_	_		_
City: Austin		State: T	TX Zip:	Att	Attn: Christian Llull				_			
Phone #:	(512)565-0190 Fa	Fax #:		Ado	Address: EMAIL					1		
Project #:	212C-MD-02878 PI	Project Owner:	Cono	ConocoPhillips City:	Y:	ĺ				-		
oject Name: Pin	Project Name: Pine Springs 2 State SWD #001	#001		State:	te: Zip:				B	-		-
pject Location:	Project Location: Eddy County, New Mexico	ico		Pho	Phone #:		-		CI-			
mpler Name: Co	Sampler Name: Colton Bickerstaff			Fax #:	(#:				000			_
FOR LABUSE ONLY				MATRIX	PRESERV.	SAMPLING			45	-		_
401.D.	Sample I.D.	Þ	B)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER	DIL IL LUDGE THER :	CID/BASE: E / COOL THER :		PH 8015M	STEX 80211	Chloride SM	,	8	
21	BH-7 (2'-3')				X		×	Х	Х	-		
as	BH-7 (3'-4')		G 1	X	X 11/7/2023	2023	×	X	Х	-		
23	23 BH-8 (0-1')		G 1	X	X 11/7	11/7/2023	Х	Х	Χ.			
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10	BH-12 (0-1')		G 1	X	X 11/8/2023	2023	×	X	X	-		
-	BH-13 (0-1')		G 1	X	X 11/8/2023	2023	×	×	X	-		
	BH-14_alt (0-1')		G 1	X	X 11/8/2023	2023	×	×	X	+		
84	BH-15 (0-1')		G 1	X	X 11/8/2023	2023	×	×	×	+		
PLEASE NOTE: Liability and Dam event shall Cardinal be liable for affiliates or successors arising c	PLARENDET: Linking and Dimagns, Cancelon linking and clarify explains awary endoger based increased as related in binducts based with binducts based and binducts based and binducts based and binducts based and binducts based binducts based and binducts based binducts b	e remedy for any claim arising wh Juding without limitation, busin rvices hereunder by Cardinal, r	other based in contract or tort, shall b less interruptions, loss of use, or I legardless of whether such claim	be limited to the amount paid to loss of profits incurred by c is based upon any of the at	by the client for the shallyses lient, its subsidiaries, bove stated reasons or othe	. All claims including those nvise.	for negligen	e and any of	er cause whatsoev	r shall be dee	med waived un	all be deemed waived unless made in writing and received by Cardinal within 30 days after comple
nquished By: (Relinquished By: Colton Bickerstaff	Date: 11/9/23	Received By		111	Verbal Result:	T.	Ves 0	No		Add'I Phone #:	
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		limo.										

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FORM-006 R 3.2 10/07/21

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Time: Observed Temp. °C Corrected Temp. °C

3

Sample Condition Cool Intact

Y.O.

Correction Factor -0.55 #140

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CHECKED BY: (Initials)

lush: NO, N/A

Cool Infact

Bacteria (only; Sample Observed Temp. °C

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Page 35 of 35



November 15, 2023

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

RE: PINE SPRINGS 2 STATE SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/09/2023	Sampling Date:	11/07/2023
Reported:	11/15/2023	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: BH- 2 (3'-4') (H236158-41)

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	11/14/2023	ND	1.85	92.5	2.00	7.65	
Toluene*	<0.050	0.050	11/14/2023	ND	1.96	98.1	2.00	10.3	
Ethylbenzene*	<0.050	0.050	11/14/2023	ND	1.98	98.8	2.00	12.2	
Total Xylenes*	<0.150	0.150	11/14/2023	ND	6.02	100	6.00	13.5	
Total BTEX	<0.300	0.300	11/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/15/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2023	ND	200	99.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	11/14/2023	ND	203	101	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	11/14/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:		Relinquished B	affiliates of successors and	event shall Cardinal be liable	0	9	00	1	6	2	4	(1)	2		DOPICEL	1122/100	Lab I.D.	Sampler Name: Colloit Dichoron		Project Location: I	Project Name: Pine	Project #:	Phone #: (City: Austin	ddress: 8911 Cap	Project Manager: Chilistian Line		Company Name: Tetra Tech		La
rcle One) Bus - Other:	¥:		Relinquished By: Colton Dickerson	- Hon Dickoretaff	PLEASE NOTE: Liubils and umages - uncertained damages, including without imitation, ourses a surveyors. Event shall Cardinal be lable for incidential or consequential damages, including without imitation, ourses or whether such claim is based upon any of the above states researce or uncertainty of the above states	BH-3 (Y-IV)	-	BH-3 (5'-6')	BH-3 (3'-4')	BH-2 (9'-10')	BH-2 (6'-7')	BH-2 (5'-6')	BH-1 (14-15)	BH-1 (11-12)	DIT 1 (11:10)	RH-1 (9'-10')		Sample I.D.		Mon Rickerstaff	Project Location: Eddy County, New Mexico	Project Name: Pine Springs 2 State SWD #001	212C-MD-02878 Pro			Address: 8911 Capital o Texas Timy, Com	Inistian Linn	hriefian Llull		101 East Marlan (575) 393-2326	Laboratories
Observed Temp. °C	Time:	1000	Timeson	Date: 11/9/23	including without limitation, pusitives services hereunder by Cardinal, reg	sive remedy for any claim arising wheth															0	001	Project Owner.			State: TX	310			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
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Cool Mac: No No No			11 19801		is based upon any of the abo	be limited to the amount paid by loss of profits incurred by clin	X	X	X	X	X	X	X	X	X	×	0 0 0	DIL SLUDGE OTHER : ACID/BASE:	MATRIX PRE	-	Eav #	Phone #:	State:	phillips City:	Address	Attn: Ch	Company	7.0.3	D) #		
(Initials)	CHECKED BY:		KCPBU	11/10	We stated reasons or on one	ent, its subsidiaries.	X 11/7/2023	X 11/7/2023		X 11/7/2023	X 11/7/2023	X 11/7/2023	X 11/7/2023		T	-	-	OTHER :	PRESERV.	SAMPLING		#	Zip:		Address: EMAIL	Attn: Christian Llull	Company: Ieua Ieun	Totro Tach	BILL IV		
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Ves Ves No Corrected Temp. 'C	e Condition			All Results are emailed. Please provide Email address: Unitsuancemeder	Add'I Phone #:		be deemed waived unless made in writing and																					3		S REQUEST	
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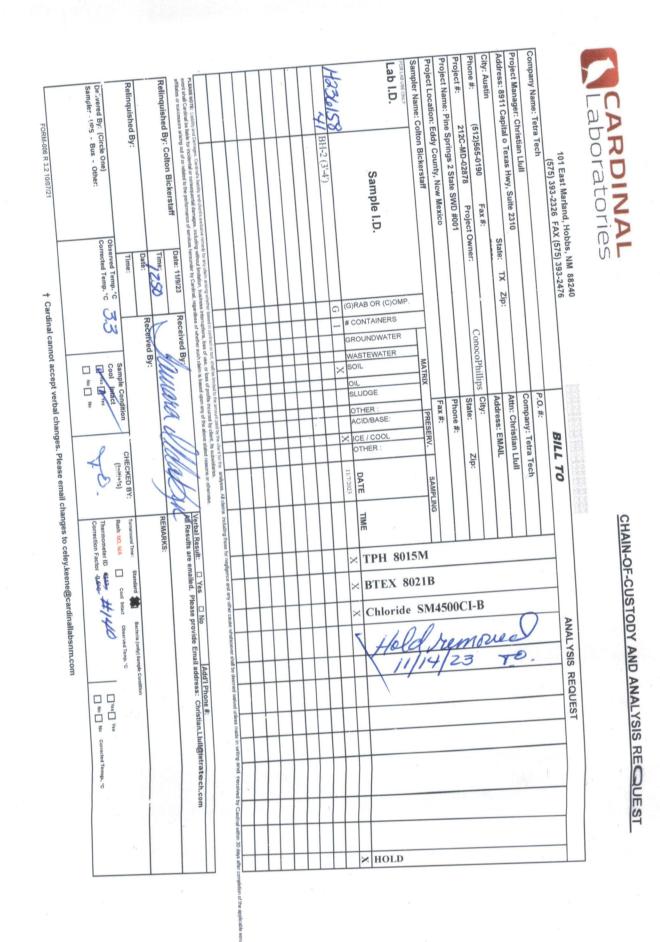
Page 4 of 8

FORM-006 R 3.2 10/07/21	Prace norm: Loady sof Conseque Counter and we deter explane memory for animate an uncertainty and area explaned warder or explane	(575) 393-2326 (575) 393-2326 (575) 393-2326 Project Manager: Christian Llull Project Manager: Christian Llull State: 2310 Address: 8911 Capital o Texas Hwy, Suite 2310 Fraid State: 17X Zi Project #: 212C-MD-02878 Project Owner: Project Name: Clatter SWD #001 Project Location: Eddy County, New Mexico Project Mame: Colton Bickerstaff Colton Bickerstaff Sample I.D. 2 BH-4 (5'-6') 3 BH-4 (5'-6') 4 BH-5 (5'-6') 7 BH-5 (5'-6') 7 BH-4 (6'-7') 7 BH-4 (5'-6') Colspan= 2'-6'	101 East Marland, Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 316834

QUESTIONS				
Operator:	OGRID:			
COG OPERATING LLC	229137			
600 W Illinois Ave	Action Number:			
Midland, TX 79701	316834			
	Action Type:			
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			

QUESTIONS Proroquisitos

Flerequisites	
Incident ID (n#)	nAB1817955890
Incident Name	NAB1817955890 PINE SPRINGS 2 STATE SWD #001 @ 30-015-42348
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-42348] PINE SPRINGS 2 STATE SWD #001

Location of Release Source

Please answer all the questions in this group.						
Site Name	PINE SPRINGS 2 STATE SWD #001					
Date Release Discovered	06/25/2018					
Surface Owner	State					

Incident Details

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 25 BBL Recovered: 20 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 316834

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QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316834
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

Initial	Res	ponse

The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	Тгие
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	tlation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required bases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 02/22/2024

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

QUESTIONS, Page 3

Action 316834

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QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316834
	Action Type:
	[C-141] Site Char /Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Critical
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions the	at apply or are indicated. This information must be provided t	to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation p	lan approval with this submission	Yes
Attach a comprehensive report den	nonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling:	(Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 Cl B)	10700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	201
GRO+DRO	(EPA SW-846 Method 8015M)	150
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes complet lines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
On what estimated date will	the remediation commence	05/15/2024
On what date will (or did) th	e final sampling or liner inspection occur	05/20/2024
On what date will (or was) t	ne remediation complete(d)	05/28/2024
What is the estimated surfa	ce area (in square feet) that will be reclaimed	22250
What is the estimated volun	ne (in cubic yards) that will be reclaimed	2472
		25000
What is the estimated surfa-	ce area (in square feet) that will be remediated	25000
	ce area (in square feet) that will be remediated ne (in cubic yards) that will be remediated	2472

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 316834

QUESTIONS (continued)		
Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	316834	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Remediation Plan (continued)

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	e / reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 02/22/2024

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

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

QUESTIONS, Page 5

Action 316834

QUESTIONS (continued)	
Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave Midland, TX 79701	Action Number: 316834
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	

Deferral Requests Only

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

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

QUESTIONS, Page 6

Action 316834

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QUESTIONS (continued)		
Operator: COG OPERATING LLC	OGRID: 229137	
600 W Illinois Ave Midland, TX 79701	Action Number: 316834	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	

No

Remediation Closure Request

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

Requesting a remediation closure approval with this submission

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CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316834
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation plan approved. Submit a report via the OCD permitting portal by July 1, 2024.	2/26/2024

Action 316834