

February 22, 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 NAB1735335003

2RP-4523

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 32.071066°, -104.366799°, 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 December 12, 2017. The release occurred as the result of a valve being left in the wrong position on the trucking load line. Approximately 6 barrels (bbls) of produced water were released, of which none were recovered. The NMOCD received the initial C-141 on December 14, 2017, and subsequently assigned the release the Remediation Permit (RP) number 2RP-4523 and the Incident ID NAB1735335003. The initial C-141 form is included in Appendix A.

The Pine Springs 2 State SWD #001 (2RP-4623/ NAB1735335003) 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 (NAB1735335003) footprint coincides with an additional release incident associated with the Pine Springs 2 State SWD #001 (NAB1817955890). A separate Release Characterization and Work Plan report will be submitted for the coincident release. As discussed,

Tetra Tech

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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 submitted to the NMSLO ECO office for review.

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

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confirmation samples representative of 2,500 square feet is not approvable. 2RP-4523 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 SM4500Cl-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 56M67-240115-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 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.

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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 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 943 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. Eight (8) confirmation floor samples and fourteen (14) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 8,485 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 SM4500Cl-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 (NAB1817955890) 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 NAB1817955890 Work Plan, COPC requests the opportunity to remediate both release extents with the approval of this Work Plan.

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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

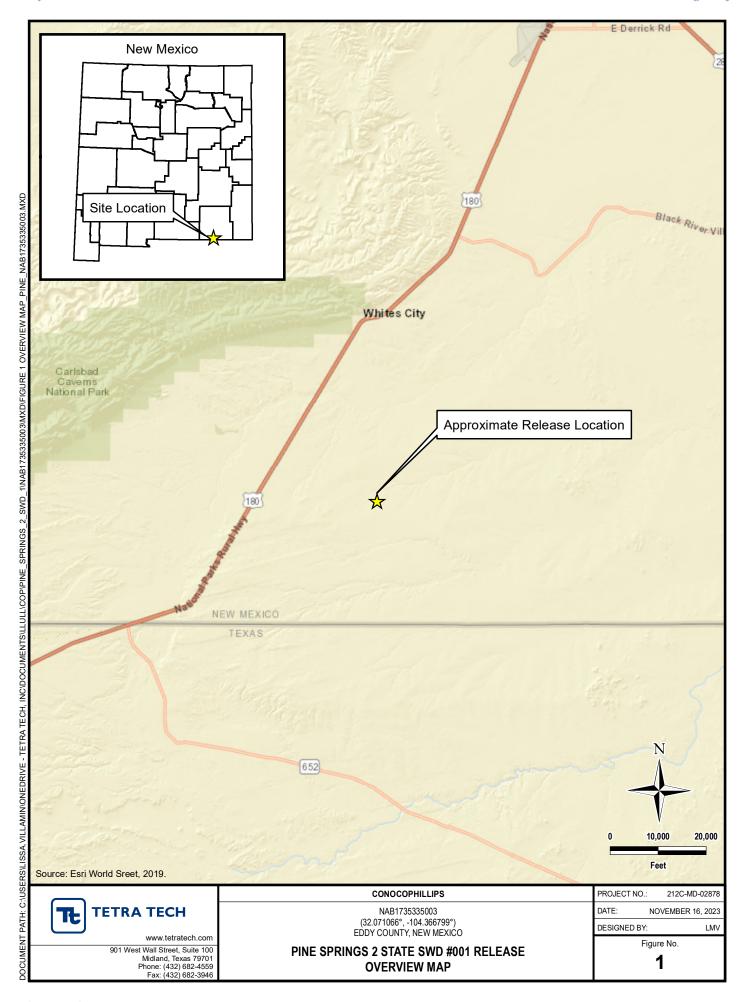
Appendix B – Site Characterization Data

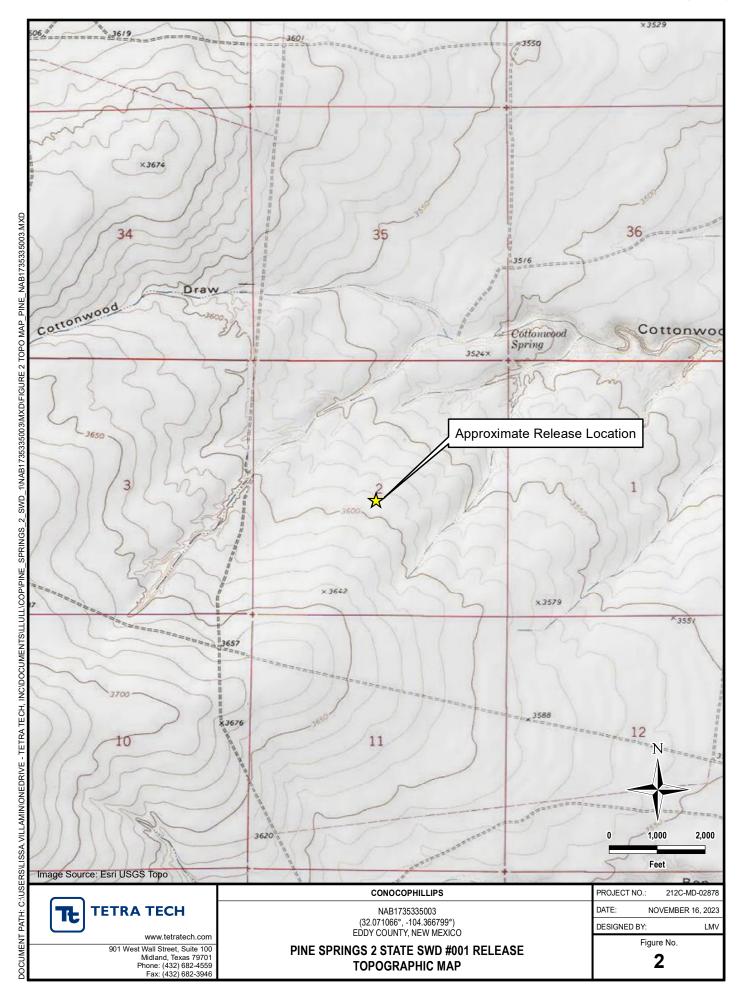
Appendix C – Regulatory Correspondence

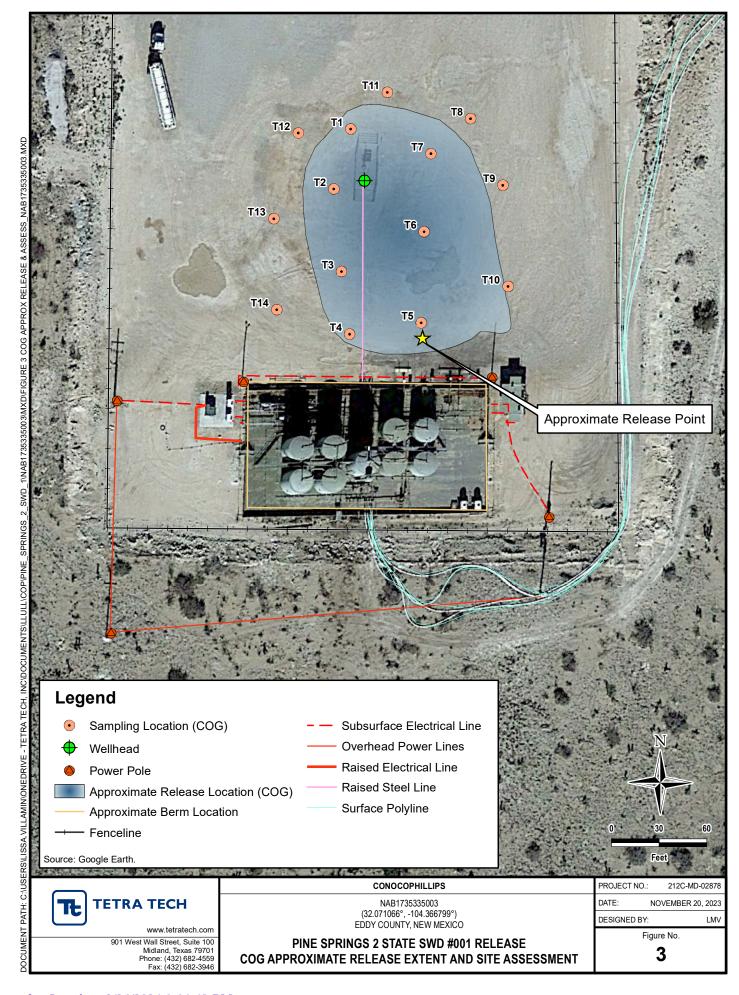
Appendix D – Photographic Documentation

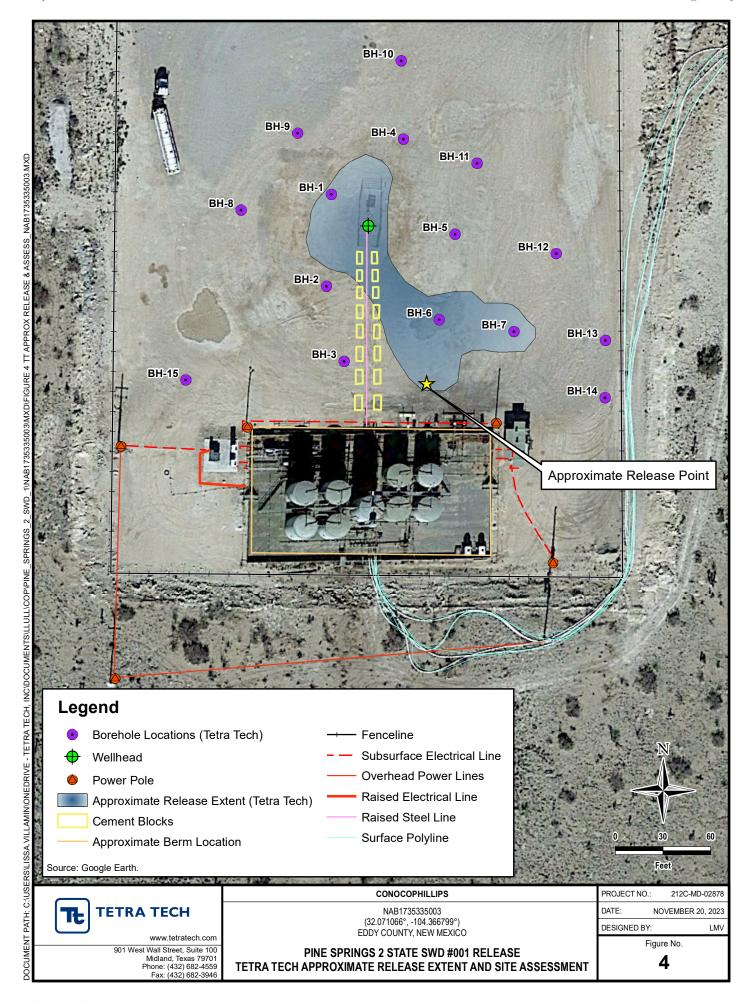
Appendix E - Laboratory Analytical Data

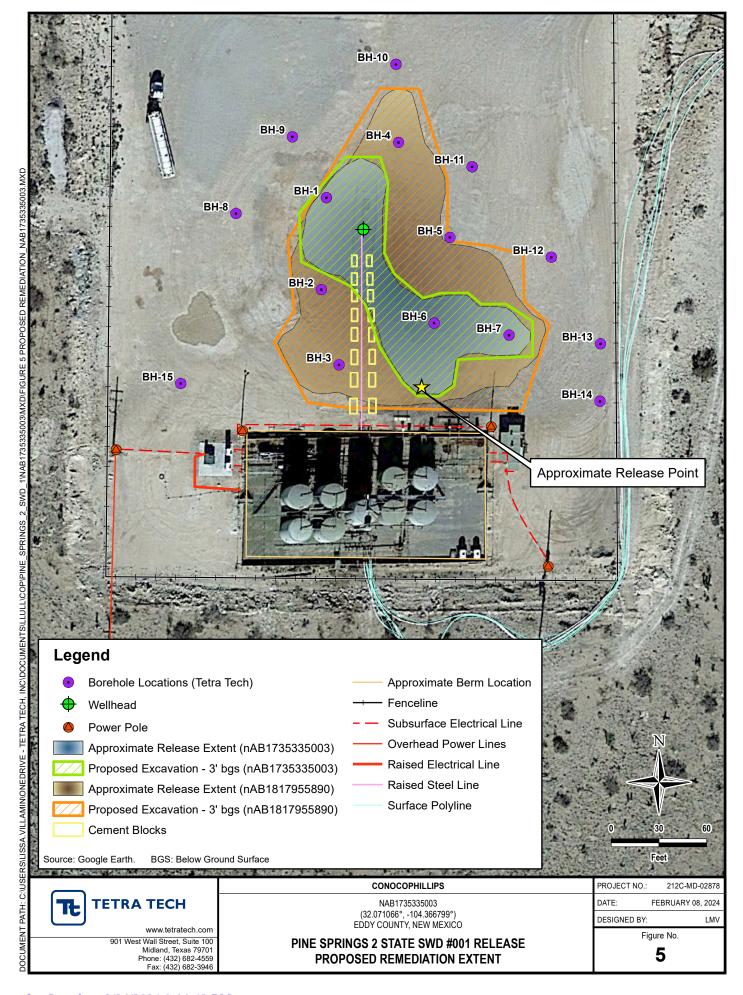
FIGURES











TABLES

TABLE 1

SUMMARY OF ANALYTICAL RESULTS 2018 SOIL REMEDIATION - NAB1735335003/2RP-4523

CONOCOPHILLIPS PINE SPRINGS 2 STATE SWD #1 RELEASE

EDDY COUNTY, NM

							BTEX ²						TPH ³	
Sample ID	Sample Date	Sample Depth	Chloride ¹	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Total Xylenes	Total BTEX	GRO	DRO	MRO	Total TPH
·	·	ft. bgs	mg/kg (Q mg/kg C	 	Q mg/kg Q	mg/kg C	· ·	 	Q mg/kg	Q mg/kg	Q mg/kg Q	
		0	1,950	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0
		1	1,260	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0
		2	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T1	9/17/2018	3	2,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5	959	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6	626	NA	NA	NA	NA NA	NA	NA NA	NA	NA	NA	NA	NA
		0	1,000	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0
		1	3,680	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0
		2	874	NA	NA	NA NA	NA	NA	NA NA	NA	NA	NA	NA NA	NA
тэ.	0/17/2010	3	765	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
T2	9/17/2018	4	415	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		5 6	1,120 391	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		7	986	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		8	286	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
	i	0	2,860	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198	<15.0	15.2	<15.0	15.2
		1	3,620	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.2 <15.0
Т3	9/17/2018	2	75.1	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA NA	NA
	0,=:,===	3	182	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA
		4	30.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	<u> </u>	0	223	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0
		1	1,020	<0.00200	0.00221	<0.00200	<0.00399	<0.00200	<0.00200	0.00221	<14.9	<14.9	<14.9	<14.9
Т4	9/17/2018	2	197	NA	NA NA	NA	NA	NA	NA NA	NA	NA	NA	NA NA	NA
		3	<4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	<4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0	10,700	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	<15.0	150	51.0	201
		1	5,920	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00200	<0.00200	<14.9	29.3	<14.9	29.3
T5	9/17/2018	2	3,710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	526	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	906	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0	4,330	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<15.0	33.5	<15.0	33.5
		1	560	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0
Т6	9/17/2018	2	87.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0	141	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200	<15.0	132	33.1	165
		1	203	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0
		2	385	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Т7	9/17/2018	3	190	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		4	105	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		5 6	68.0 91.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		7	145	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
T0	0/47/2042	,							1				+ + +	
T8	9/17/2018	0	513	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA	NA	NA NA	NA
T9	9/17/2018	0	502	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA
T10	9/17/2018	0	2,330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T11	9/17/2018	0	1,250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T12	9/17/2018	0	473	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T13	9/17/2018	0	596	NA	NA NA	NA	NA NA	NA NA	NA NA	NA	NA	NA	NA NA	NA
				 		+	+		+				+ + + + + + + + + + + + + + + + + + + +	
T14	9/17/2018	0	385	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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. FPA Method 300.0

EPA Method 300.0
 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 2 SUMMARY OF ANALYTICAL RESULTS 2023 SOIL ASSESSMENT - nAB1735335003 CONOCOPHILLIPS PINE SPRINGS 2 STATE SWD #1 RELEASE EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screen	iing Kesuits			BTEX ²								TPH ³						
Sample ID	Sample Date				Chloride ¹	Chloride ¹			no	Ethylben	70no	Total Xyl	onos	Total D	TEV	GRO		DRO		EXT DRO	Total TPH
			Chloride	Titration		Benzene		Toluene		Ethylben	zene	TOTAL AYI	enes	Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	рр	om	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg 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	1	<0.050	1	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
	44 /0 /0000	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' 3-4'	-	225	1,060	<0.050		<0.050		<0.050 <0.050		<0.150		<0.300		<10.0		<10.0		<10.0 <10.0	-
				225	304	<0.050		<0.050		1		<0.150		<0.300		<10.0		<10.0			-
вн-з	11/8/2023	0-1'	-	-	608	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
		2-3'	<u> </u>	-	528	<0.050		<0.050	<u> </u>	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<u> </u>
		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'	-	- 420	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	1	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
вн-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	-
	/0 /0.00	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	<u> </u>	<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>	200						1											-
BH-7	11/8/2023	0-1'	-	-	1200	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-
БП-7	11/6/2023	2-3' 3-4'	-	300	1120 352	<0.050 <0.050		<0.050 <0.050		<0.050 <0.050		<0.150		<0.300 <0.300		<10.0 <10.0		<10.0 <10.0		<10.0 <10.0	-
	44 /7 /2022		<u> </u>				1	1	<u> </u>	1			<u> </u>	<u>. </u>					<u> </u>		
BH-8	11/7/2023	0-1'	<u> </u>	540	368	<0.050	1	<0.050	<u> </u> 	<0.050		<0.150	1	<0.300	1	<10.0		<10.0	1	<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	-

ft. Feet

bgs Below ground surface mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

Diesel range organics

Method SM4500Cl-B Method 8021B

Method 8015M

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

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

APPENDIX A C-141 Forms

NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico Energy Minerals and Natural Resources

DEC 1 4 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED accordance with 19.15.29 NMAC

	Release Notification and Corrective Action											
NABIT:	35335	∞ 3				OPERA	TOR		<u> Initia</u>	l Report		Final Report
						Contact: Robert McNeill						
						Telephone N			<u> 583-744</u>			
Facility Name: PINE SPRINGS 2 STATE SWD #001 F						Facility Typ	e:	Tank	Battery	<u> </u>		
Surface Ow	ner:	State		Mineral O	wner:	State			API No	. 30-0	15-42	348
				LOCA	TIOI	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We			Cour	•
<u>K</u>	02	268	25E	2500'		South	2500'	We	est		Edd	<u>y</u>
Latitude 32.071434 Longitude •104.3667831												
				NAT	URE	OF RELI						
Type of Relea	ase:	D 1 1	***			Volume of			Volume	Recovered		ł
Source of Re	lence:	Produced	water			Date and H	6 bbls PW our of Occurrence	6.	Date an	d Hour of I	ls PW	erv
Bource of Re	ouso.	Valv	e				12-2017 7:00 AN		L Butto di	12-12-201		
Was Immedia	ate Notice G		v 🔽	N- N-AD-		If YES, To	Whom?					
D WI O			Yes 🔼	No Not Re	quirea	D. (
By Whom? Was a Water	Course Reac	hed?				Date and H	our: lume Impacting t	he Watero	ourse			
was a water	Jourse Reac		Yes 🖂	No		n ibs, ve	nume impacting t	ne watere	ourse.			
If a Watercou	rse was Imp	pacted, Descri	be Fully.*			<u> </u>						
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*						 _		
This release v	vna savasd l	ar a valva hai	na latin t	ha umana nasitian	an tha	tmaking lood	l long. The volve v	was places	l in the o	arrest nacit	on	
This release	was caused	by a valve bei	ng ieit in t	he wrong positior	on the	trucking load	name. The valve v	was placed	. III the C			
Describe Are	a Affected a	ind Cleanup A	Action Tak	en.*								
This release of	occurred on	the location in	n front of t	he facility. Conch	o will l	nave the spill	area evaluated for	r any poss	ible impa	et from the	release	e and will
present a rem	ediation wo	rk plan to the	NMOCD	for approval prior	to any	significant re	mediation work.					
I hereby certi	fy that the i	nformation gi	ven above	is true and compl	ete to the	he best of my	knowledge and u	nderstand	that purs	uant to NM	OCD 1	rules and
regulations a	ll operators	are required to	o report an	d/or file certain re	elease n	otifications a	nd perform correc	tive action	ns for rele	eases which	may e	ndanger
should their	or the envir operations h	onment. The	acceptanc dequately	e of a C-141 repo investigate and re	rt by tn emediat	e NMOCD m e contaminati	arked as "rinal K on that pose a thr	eport doc eat to grou	es not ren and water	eve the ope r. surface w	rator o ater. hi	iman health
or the environ	nment. In a	ddition, NMC	CD accept	tance of a C-141 i	eport d	oes not reliev	e the operator of	responsibi	lity for co	ompliance v	with an	y other
federal, state,	or local lav	vs and/or regu	lations.				OH COM	CEDALA	TION	DIVICI	N I	
}	A.				- }		OIL CON	SEKVA	TION	DIVISIO	<u> </u>	
Ciamatuma	1.	abot Park							Λ	A (1	.\
Signature:					-	Approved by	Environmental S	pecialist:	MA	ste	C 1/	\sim
Printed Name	2 :	Dakot	a Neel						- /	-		
Title:	Н	SE Coordinat	or		_	Approval Da	ie: 12 18 17	Ex	piration	Date: N	IA	
E-mail Addre	ess:	dneel2@c	concho.cor	n		Conditions of	f Approval:	Q		Attached	ı 🗖	
Date: Dec	cember 14,	2017	Phone:	575-746-2010		See	attack	regr			0	NP-4523

* Attach Additional Sheets If Necessary

12/15/17/43

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 12/14/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>2RD-4523</u> 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 II office in Artesia on or before 1/14/18. 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

Weaver, Crystal, EMNRD

From: Dakota Neel <DNeel2@concho.com>
Sent: Dakota Neel <DNeel2@concho.com>
Thursday, December 14, 2017 10:30 AM

To: Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; Amber Groves **Cc:** Rebecca Haskell; Robert McNeill; Sheldon Hitchcock; Christopher Gray

Subject: (C-141 Initial) PINE SPRINGS 2 STATE SWD #001 12-12-2017 (30-015-42348) **Attachments:** (C-141 Initial) PINE SPRINGS 2 STATE SWD #001 12-12-17 (30-015-42348).pdf

Ms. Weaver/Ms. Groves,

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

Thank you,

Dakota Neel
HSE Coordinator
COG Operating LLC
Cell: 432-215-2783
dneel2@concho.com

2407 Pecos Ave. Artesia, NM 88210



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Received by OCD: 2/22/2024	11:06:45 PM
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District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No			
Are the lateral extents of the release overlying a subsurface mine?				
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 soi 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 well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.			

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

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)				

Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release 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: 7478	Date:				
email:	Telephone:				
OCD Only					
Received by:	Date:				

Received by OCD: 2/22/2024 11:06:45 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID	
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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the 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) 						
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.					
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of					
Printed Name:	Title:					
Signature: 0475						
email:	Telephone:					
OCD Only						
OCD Only						
Received by:	Date:					
Approved	Approval Denied Deferral Approved					
Signature:	<u>Date:</u>					

APPENDIX B Site Characterization Data

OCD Waterbodies Map



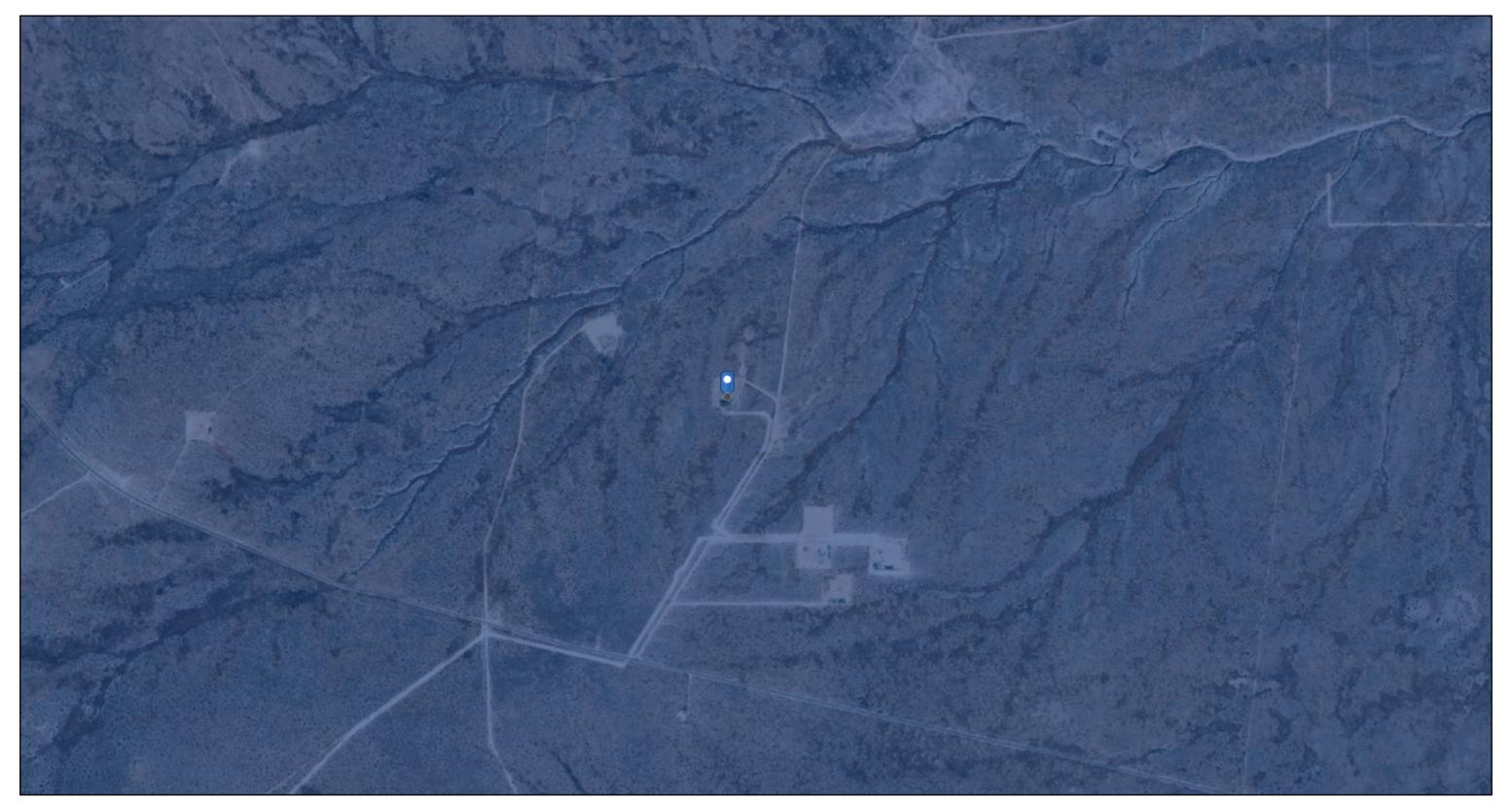
10/28/2022, 8:25:09 AM

OSE Streams

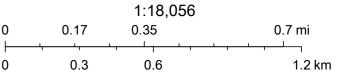
1:9,028 0 0.07 0.15 0.3 mi 0 0.15 0.3 0.6 km

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

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

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CI W##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced. O=orphaned.

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is (quarters are smallest to largest) closed)

(NAD83 UTM in meters)

(In feet)

POD

000

Depth Depth Water Distance Well Water Column

Sub-Code basin County 64 16 4 Sec Tws Rng

4 1 1 11 26S 25E

559375

3547431

Average Depth to Water: Minimum Depth: 23 feet 23 feet

Maximum Depth: 23 feet

Record Count: 1

POD Number

C 03321

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>

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

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

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

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Please consider the environment before printing. Read more

Chama, Sam

From: Velazquez, Amy <avelazquez@slo.state.nm.us>

Sent: Tuesday, August 15, 2023 10:23 AM **To:** Chama, Sam; Crosby, Faith; Armijo, Melissa

Cc: Carroll, Ryan; SLO Spills

Subject: RE: Permit Inquiry - Pine Springs SWD

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

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



New Mexico State Land Office Physical: 310 Old Santa Fe Trail

Santa Fe, NM 87501 Post Office Box:

fP.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 | sam.chama@tetratech.com

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

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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



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

Released to Imaging: 2/26/2024 1:14:48 PM

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.

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.

Received by OCD: 2/22/2024 11:06:45 PM

Received by OCD: 2/22/2024 11:06:45 PM

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

PERMITTEE SIGNATURE M	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 DATE: 10/23/2023

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 < Shelly.Wells@emnrd.nm.gov>

Sent: Thursday, July 27, 2023 10:59 AM

To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov"> ; Hall, Brittany, EMNRD < Brittany.Hall@emnrd.nm.gov > **Subject:** FW: [EXTERNAL] Extension Request - nAB1817955890 and nAB1735335003 (Pine Springs State SWD #01)

From: Carroll, Ryan < RYAN.CARROLL@tetratech.com >

Sent: Thursday, July 27, 2023 9:40 AM

To: Enviro, OCD, EMNRD < ocn.enviro@emnrd.nm.gov <a href="https://ocn.enviro.env

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: Chama, Sam

Subject: 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 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Carroll, Ryan < RYAN.CARROLL@tetratech.com>

Sent: Friday, October 27, 2023 6:53 AM

To: Hall, Brittany, EMNRD < Brittany, Hall@emnrd.nm.gov>

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)

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 <Brittany.Hall@emnrd.nm.gov>

Sent: Wednesday, October 25, 2023 8:57 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,

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 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Carroll, Ryan <RYAN.CARROLL@tetratech.com>

Sent: Monday, October 23, 2023 7:24 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov> Cc: Llull, Christian < Christian.Llull@tetratech.com>

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: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 303572

Date: Friday, February 02, 2024 9:25:42 AM

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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#) nAB1735335003, 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: 303572.

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



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	Site signage.	1
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/8/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east, northwest corner of battery facilities. Visible utility markings and base of electrical pole.	2
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



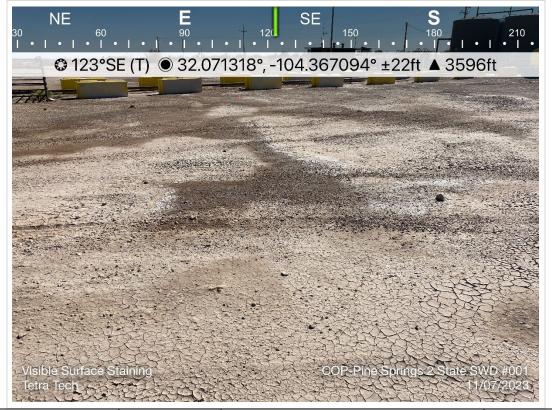
TETRA TECH, INC.	DESCRIPTION	View east, facility equipment present along northeastern edge of tank battery.	3
PROJECT NO. 212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south, southeast corner of pad, no visible surface staining.	4
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north, underground electrical facilities on northwestern edge of battery facilities.	5
	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View southeast, pad surface with desiccation cracks and visible staining.	6
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View southwest, pad surface with borehole location marked by pin-flag, and visible staining.	7
	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, east side of wellhead, possible minor staining.	8
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View west, surface steel line in background surrounded by cement blocks. Visible surface staining.	9
	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest, surface steel line surrounded by cement blocks. Visible surface staining.	10
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC.	DESCRIPTION	View south, raised steel line and surrounding cement blocks. Visible surface staining.	11
PROJECT NO. 212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south, pad area north of wellhead, tank battery in background, and visible staining on pad surface.	12
212C-MD-02878	SITE NAME	Pine Springs 2 State SWD #001 Release	11/7/2023

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (432) 682-3946

Received: 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 5	% 71.5-13	4						
Chloride, SM4500CI-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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-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	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	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						

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11/07/2023

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

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

Received: 11/09/2023 Sampling Date:

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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg/	<u> </u>	Alluly20	a 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, SM4500CI-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	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	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 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-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	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	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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Analytical Results For:

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: Sampling Type: Soil 11/14/2023

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		Analyzed 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 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	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 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/07/2023

Reported: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02878 Sample Received By:

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-B	mg/kg		Analyzed 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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Analytical Results For:

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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed 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, SM4500CI-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	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	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						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/07/2023

Reported: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02878

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B	mg/	'kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-B	mg/	/kg	Analyzed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed 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	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	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	100	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

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

Received: 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	Analyzed 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, SM4500CI-B	mg,	/kg	Analyzed 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	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	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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Analytical Results For:

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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

B1EX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed 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	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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

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

Fax To: (432) 682-3946

Received: 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

Applyzod By: 1H /

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea 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, SM4500CI-B	mg,	/kg	Analyzed 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	ed 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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Analytical Results For:

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: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02878 Sample Received By:

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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

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

Received: 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

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B

	9,	9	7	7: :					
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	Analyzed 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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Analytical Results For:

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

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

		/ kg		a 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, SM4500CI-B	mg,	/kg	Analyzed 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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Celey D. Keine

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

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

Received: 11/09/2023 Sampling Date: 11/07/2023

Reported: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02878 Sample Received By:

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	Analyzed 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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Analytical Results For:

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: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02878

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 9	% 71.5-13	4						
Chloride, SM4500CI-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	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	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 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

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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		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	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	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

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: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - MD - 02878 Sample Received By:

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 9	% 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	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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Analytical Results For:

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

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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*	0-C28* <10.0 10		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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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701 Fax To:

(432) 682-3946

11/09/2023 Sampling Date: 11/07/2023 Reported: Sampling Type: Soil 11/14/2023

Project Name: PINE SPRINGS 2 STATE SWD #001 Sampling Condition: Cool & Intact

Project Number: Tamara Oldaker 212C - MD - 02878 Sample Received By:

Project Location: EDDY COUNTY, NEW MEXICO

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

Received:

BTEX 8021B	mg/	mg/kg		d By: JH	RS				
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	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 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

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

Received: 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

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result Reporting Lin		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*	.0-C28* <10.0 1		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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 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

Applyzod By: 14

Project Location: EDDY COUNTY, NEW MEXICO

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

RTFY 8021R

BIEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	ed 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	ed 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-C28* <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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Analytical Results For:

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

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B

DIEX GOZID	ıııg,	Kg .	Allulyzo	.u by. 511					
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed 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	ed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/07/2023

Reported: Sampling Type: Soil 11/14/2023

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 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	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 11/09/2023 Sampling Date: 11/08/2023

Reported: Sampling Type: Soil 11/14/2023

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 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	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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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET

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

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B

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, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte			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 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 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

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B

	<u> </u>			. ,					
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, SM4500CI-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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Analytical Results For:

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

Analyzed By: JH

Project Location: EDDY COUNTY, NEW MEXICO

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

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	ed 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	ed 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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Analytical Results For:

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: Sampling Type: Soil 11/14/2023

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 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	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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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

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Celeg D. Freene

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By:	linguished By:			Relinquished By: Colton Bickerstaff		BH4 (0-1')	9 BH-3 (2'-3')	8 BH-3 (0-1')	7 BH-2 (2'-3')	6 BH-2 (0-1')	5 BH-1 (6'-7')	4 BH-1 (5'-6')	3 BH-1 (3'-4')	2 BH-1 (2'-3')	BH-1 (0-1')	Lab I.D. 4234153	OR LAB USE ONLY	Sampler Name: Colton Bickerstaff	Project Location: Eddy County, New Mexico	Project Name: Pine Springs 2 State SWD #001	Project #: 212C-MD-02878	Phone #: (512)565-0190	City: Austin	Address: 8911 Capitzl o Texas Hwy, Suite 2310	Project Manager: Christian Llull	Company Name: Tetra Tech	
				ckerstaff	onsequental damages, including to the performance of services	BH-4 (0-1) G 1 X X X X X x and the final three desires and associated and the final three desires to an analysis in the final three desires three final thre	-3')	·1')	-3')	-1')	-7')	-6')	4)	-3')	-1')	Sample I.D.		kerstaff	unty, New Mexico	s 2 State SWD #00		-0190 Fax #:		xas Hwy, Suite 23	Llull	7	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Observed Temp. °C A ->			Time: 6	Date: 11/9/23	without limitation, business i hereunder by Cardinal, regan	dy for any claim arising whether	1													1	Project Owner:		State: TX	10)1 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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Page 33 of 35



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

Company Name: Tetra Tech Project Manager: Christian Llull	Tetra Tech Christian Llull								P.O. #:	#	BII	BILL TO					ANA	ANALYSIS REQUEST	REC	Sant	77	7	$\dashv \mid$	-1-4	
Address: 8911 Ca	Address: 8911 Capital o Texas Hwy, Suite 2310	e 2310				- A			Con	npar	ıy: Tetr	Company: Tetra Tech								-					
City: Austin		State: TX	Zip:	Ď.					Attn	n: Ch	Attn: Christian Llull	Llull		_									_		
Phone #:	(512)565-0190 F	Fax #:							Add	ress	Address: EMAIL	F											_		
Project #:	212C-MD-02878 P	Project Owner:		- 1		ono	coP	ConocoPhillips	City:	"															
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Project Location:	Project Location: Eddy County, New Mexico	tico							Pho	Phone #:						CI-									
Sampler Name: Colton Bickerstaff	olton Bickerstaff								Fax #:	#						000				c					
FOR LAB USE ONLY			┪	\dashv	Н	H	MA	MATRIX		PRESERV.	RV.	SAMPLING	ING		1	45									
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	l l	Relinquished By: Colton Bickerstaff	eren, was we was to mornial consequents samages, futuring windus intelligence, bas of last, of loss of polits incurred by elect, its absolutions, affiliates or successors arising out 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 otherwise.	PLEASE NOTE: Liability and Damages. Co	3 6 BH-	39 BH-	d	87 BH-	9	_	24 BH-	33 BH-8 (0-1')	32 BH-7 (3'-4')	21 BH-7 (2'-3')	Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin Phone #: (512)565-0190 Fax #: Project #: 212C-MD-02878 Project Project Name: Pine Springs 2 State SWD #001 Project Location: Eddy County, New Mexico Sampler Name: Colton Bickerstaff FRALAUSE ONLY Lab I.D. Sample I.D. Sample I.D.	Company Name: Tetra Tech
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	Turnaround Time: Rush: NO, N/A	,	REMARKS:	All Kesuns are emailed. Please provide Email address: Christian.Lluil@retratech.com .	Verbal Result:		ns including those for negligence and any other cause whatsoever	. 5										SAMPLING	
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	Bacteria (only, Sample Condition Observed Temp. °C			e Email a			- 6											*	ANAL
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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/ga/lab accred certif.html.

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

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

Celey D. Keene

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. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 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, SM4500CI-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

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

Celey D. Keine



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

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

Celeg D. Freene



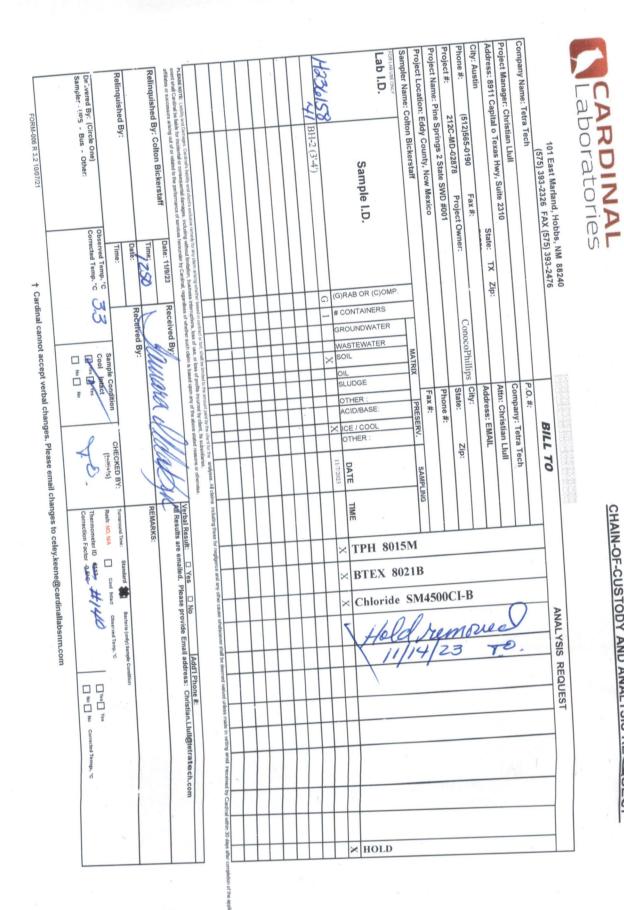
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					artilates or successors arising out or or research and property of the Relinquished By: Colton Bickerstaff	PLEASE NOTE: Liability and Diranges, Customis associated uniques, including without invitation, business interruptions, case or use, or execution and of the above stated reasons or other event shall Customal be liable for incidental or consequential damages, including without invitation, business of whether such claim is based upon any of the above stated reasons or other event shall Customal be liable for incidental of the performance of services hereunded by Cerdinal, regardless of whether such claim is based upon any of the above stated reasons or other events.	BH-3 (9'-10')	BH-3 (6'-7')	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')	BH-1 (9'-10')			Sample I.D.		ton Bickerstaff	Project Location: Eddy County, New Mexico	Project Name: Pine Springs 2 State SWU #001	212C-MD-02878 Proje			Address: 8911 Capital o Texas nwy, Suite and	ristian Llull	ra Tech	(575) 393-2326	101 East Marland	
	Observed Temp. °C SC Corrected Temp. °C	Time:	Date:	OS25/mil	Date: 11/9/23	duding without limitation, business vices hereunder by Cardinal, regar	remedy for any claim arising whether											C)P	AB OR (C)	OMP.				Project Owlier.			State: TX Zip:	10		(575) 393-2326 FAX (373) 333-2113	101 East Marland, Hobbs, NM 88240	
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	d also	ED BY:		1	1	or otherwise.	for the analyses. All cauris buildiaries.	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	11/7/2023	DATE			SAMPLING						=	ech		70	(2007) (2007) (2007) (2007) (2007)	
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Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	cont it shall custing to label for Problems cont it shall custing to do or violated to the portormance of antisess or successors arising out of or violated to the portormance. Relinquished By: Colton Bickerstaff	BH-7 (5'-6') Bh-7 (5'-6') Damages. Cardinal's liability and client's excluding a consequential damages.	BH-6 (9'-10')	BH-5 (9'-10")	BH-5 (6'-7')	BH-5 (5'-6')	BH-5 (3'4')	BH-4 (9'-10")	BH4 (6'-7')	BH-4 (5'-6')			Sample I.D.		ton Bickerstaff	Broiect Location: Eddy County, 1907	Project Name: Pine Springs - New Mexico	State SWD #00	212C-MD-02878 Projec	(£12)565-0190 Fax#:		Project Manager: Christian Lluii Project Manager: Christian Lluii Project Manager: Christian Lluii	a lecii		101 East Marland, Hobbs, NM 88240	Laboratories
Temp. °C	Date: 11/9/23 Rev	give remedy for any claim arising whether based in including without limitation, business interrug produces hereunder by Cardinal, regardless of	G	G	G	G	G	G	G	G	G 1			(C)OMP.					Project Owner:		State: TX ZIP.				11 East Marland, Hobbs, NM 88240	es
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Yes No Corrected Temp. 'C		an.Llull@tetratech.com	Unless made in writing and recovery of	Transfer and received by Cardinal														10								
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FORM-006 R 3.2 10/07/21		New Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam Sam	CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Tetra Tech Company Name: Tetra Tech
† Cardinal cannot accept verbal changes. Please email changes to celey,keene@cardinallabsniivoii	Date: Received By: Time: CHECKED BY: Tunswound Its Chicked Temp. *C 3,3 Cool Indict Chicked Temp. *C C	Conocophillips City: Zip: SAMPLING	M 88240 393-2476 P.O. #: Company: Tetra Tech
to celey.keene@cardinallabshiiامکانانا	REMARKS: Bacteria (orb) Sample Condition Transpound Time: Standard	THINE TPH 8015M BTEX 8021B Chloride SM4500CI-B X X X X X X X X X X X X X X X X X X X	ANALYSIS REQUEST



101 East Ma	101 East Marland, Hobbs, NM 88240		NOIS NOIS	
(575) 393-2	(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS	V REGOLO-
Company Name: Tetra Tech		P.O. #:		
Project Manager: Christian Llull		Company: Tetra Tech	7	
Address: 8911 Capital o Texas Hwy, Suite 2310	i.	Attn: Christian Llull		ă.
City: Austin	State: TX ZIP:	Address: EMAIL		
(512)565-0190	Fax#:	-		
	Project Owner: Conocor impo		-В	
mo. Pin	ID #001	*	Cl	
Project Name: Filic opinio		Phone #:	000	
Project Location: Eddy County, New Mexico	exico	Fax#:		
Sampler Name: Colton Bickerstaff	MATRIX	PRESERV. SAMPLING	В	
FOR LAB USE ONLY			21	
Lab I.D.	C)OMP. ERS		X 80	LD
Sample I.D.	AB OR ((NTAINE UNDWA TEWAT!	DGE HER: D/BASE: / COOL HER:	TPH BTEX	< HO
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34 BH-17_alt (9'-10')	-1.	X 11/8/2023	4 >	
BH-18 alt (0-1')		X 11/8/2023	>	×
BH-18_alt (2'-3')	-	X 11/8/2023	×	×
35 BH-18 alt (3'-4')	-	X 11/8/2023	×	×
	- -	X 11/8/2023	× ×	X
39 BH-18 alt (6'-7')		X 11/8/2023	X A	be deemed waived unless made in writing and received by Cardinal water our ways when
40 BH-18 alt (9'-10')	U I A A A A A A A A A A A A A A A A A A	ted to the amount paid by the client for the analyses. All claims	including those for regardence and any	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client places. Full Cardinal be liable for incidental or consequental data.	PLEASE NOTE: Lability and Damagan. Cardrat's lability and client's exclusive minds for any client's exclusive strengtions, based use, or loss of postis including values of the above stated research to any client and the stated research of any client such claim is based upon any of the above stated research.	upon any of the above stated reasons or otherwise.	T Vac T No	Add'l Phone #:
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Relinquished By: Colton Bickerstaff	Date: 11/9/23			
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No.	Time:	CHECKED BY:	Turnsround Time: Standard Bacteria (only) Sample Condition	Condition
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		1	r ID	☐ Yes☐ Yes☐ Yes☐ No☐ No Corrected Temp. *C
	□ No □	**	College	
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EOBM_006 R 3.2 10/07/21	The second second very second	Dal Cildilacor i social		



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

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

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

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

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

QUESTIONS

Action 316833

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1735335003
Incident Name	NAB1735335003 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	12/12/2017
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 fo	or 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 Valve Produced Water Released: 6 BBL Recovered: 0 BBL Lost: 6 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.

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

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

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

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 316833

OHEST	IONS (continued)
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 316833 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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
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.
	ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o 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 asses 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
	Name: Christian LLuLL

Title: Project Manager

Date: 02/22/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

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

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

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

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

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

QUESTIONS, Page 3

Action 316833

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	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 and 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)	Between 1 and 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 t	hat apply or are indicated. This information must be provided t	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	emonstrating 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 vertice	al extents of contamination been fully delineated	Yes
Was this release entirely of	contained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	NMAC unless the site characterization report includes complete nelines 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 NMAC,
On what estimated date w	ill the remediation commence	05/15/2024
On what date will (or did) t	he final sampling or liner inspection occur	05/18/2024
On what date will (or was)	the remediation complete(d)	05/22/2024
What is the estimated surface area (in square feet) that will be reclaimed What is the estimated volume (in cubic yards) that will be reclaimed		7520
		724
What is the estimated surf	ace area (in square feet) that will be remediated	7520
What is the estimated volu	me (in cubic yards) that will be remediated	724
These estimated dates and measure	urements are recognized to be the best guess or calculation at t	he time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

District I

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

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

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

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

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

QUESTIONS, Page 4

Action 316833

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)					
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.					
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:					
(Select all answers below that apply.)					
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes				
Which OCD approved facility will be used for off-site disposal	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 efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: 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 316833

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	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

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

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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 316833

QUESTIONS (continue									
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Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	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.}
Remediation Closure Request	

No

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

Action 316833

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	316833
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

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