



September 27, 2024

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

**Re: Closure Report
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 associated with 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, 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.

Tetra Tech

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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 State 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 April 20, 2024, 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 B.

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 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.

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 from 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.

C-145 CHANGE IN OPERATOR

Solaris Water Midstream, LLC (328947) acquired the Pine Springs 2 State SWD formerly operated by COG (229137); however, COG retained environmental liability and the site is included in the ACO-R with the NMOCD, related to unresolved releases from ConocoPhillips's predecessor-in-interest ("COG"). A C-145 was submitted and approved by the OCD for a change in operator from COG to Spur, on January 13, 2020. Rob Kirk, Vice President & General Manager, HSE & Compliance for Aris Water Solutions, authorized COP to complete remedial work at the facility.

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 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-4523 closed. Refer to incident #NAB1735335003 in all future communication. Submit a complete report through 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. 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.

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.

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

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, a revised Work Plan was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on February 22, 2024. The revised Work Plan proposed removing impacted material to the maximum extent practicable in the vicinity of production equipment, large permanent structures, and electrical and/or pressurized lines. The Work Plan was approved via email by Ashley Maxwell of the NMOCD on February 26, 2024, with the following comment:

- *"Remediation work approved. Submit a report via the OCD permitting portal by July 1, 2024."*

The NMOCD-approved Work Plan was submitted via email to Tami Knight and the Environmental Compliance Office (ECO) of the New Mexico State Land office on March 1, 2024. The Work Plan was approved by the ECO on March 12, 2024, with the following comments:

- *"The NMSLO Environmental Compliance Office (ECO) has reviewed the revised plan for the subject incident, and based on the information provided in the document received from your office, ECO has approved the remediation plan. Please submit the remediation closure report to eco@slo.state.nm.us."*

A 90-day extension request to September 29, 2024, was approved in an email dated July 1, 2024. NMOCD correspondence is included in Appendix B.

REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING

From August 12 to 29, 2024, Tetra Tech personnel were onsite to supervise remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. The NMOCD district

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ConocoPhillips

office was notified of the confirmation sampling events via the OCD Portal. Documentation of associated regulatory correspondence is included in Appendix B.

Impacted soils were excavated as indicated in Figure 5. The areas within the release footprint were excavated to a maximum depth of 3 feet below surrounding grade. Photographs from the excavated areas prior to backfill are provided in Appendix D. All excavated material was transported offsite for proper disposal. Approximately 2,180 cubic yards of material were transported to the R360 Red Bluff Landfill in Orla, Texas. Copies of the waste manifests are available upon request.

Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD-approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. A total of forty-eight (48) confirmation floor sample locations and eleven (11) confirmation sidewall sample locations were used during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are indicated in Figure 5.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the established Site RRALs to demonstrate compliance.

The results of the August 2024 confirmation sampling events are summarized in Table 3. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. One (1) representative 5-point composite sample was collected from the backfill material used for the backfill of the project site. The remediated area is indicated in Figure 5. Soil backfill composite sampling results are summarized in Table 4. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix F.

CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed. The final C-141 forms are enclosed in Appendix A.

If you have any questions concerning the remediation activities for the Site, please call me at (512) 560-9064.



Nicholas M. Poole, G.I.T.
Project Manager



Christian Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Ms. Crisha Morgan, BLM

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ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – COG Approximate Release Extent and Site Assessment
- Figure 4 – Tetra Tech Approximate Release Extent and Site Assessment
- Figure 5 – Remedial Activities and Confirmation Sampling

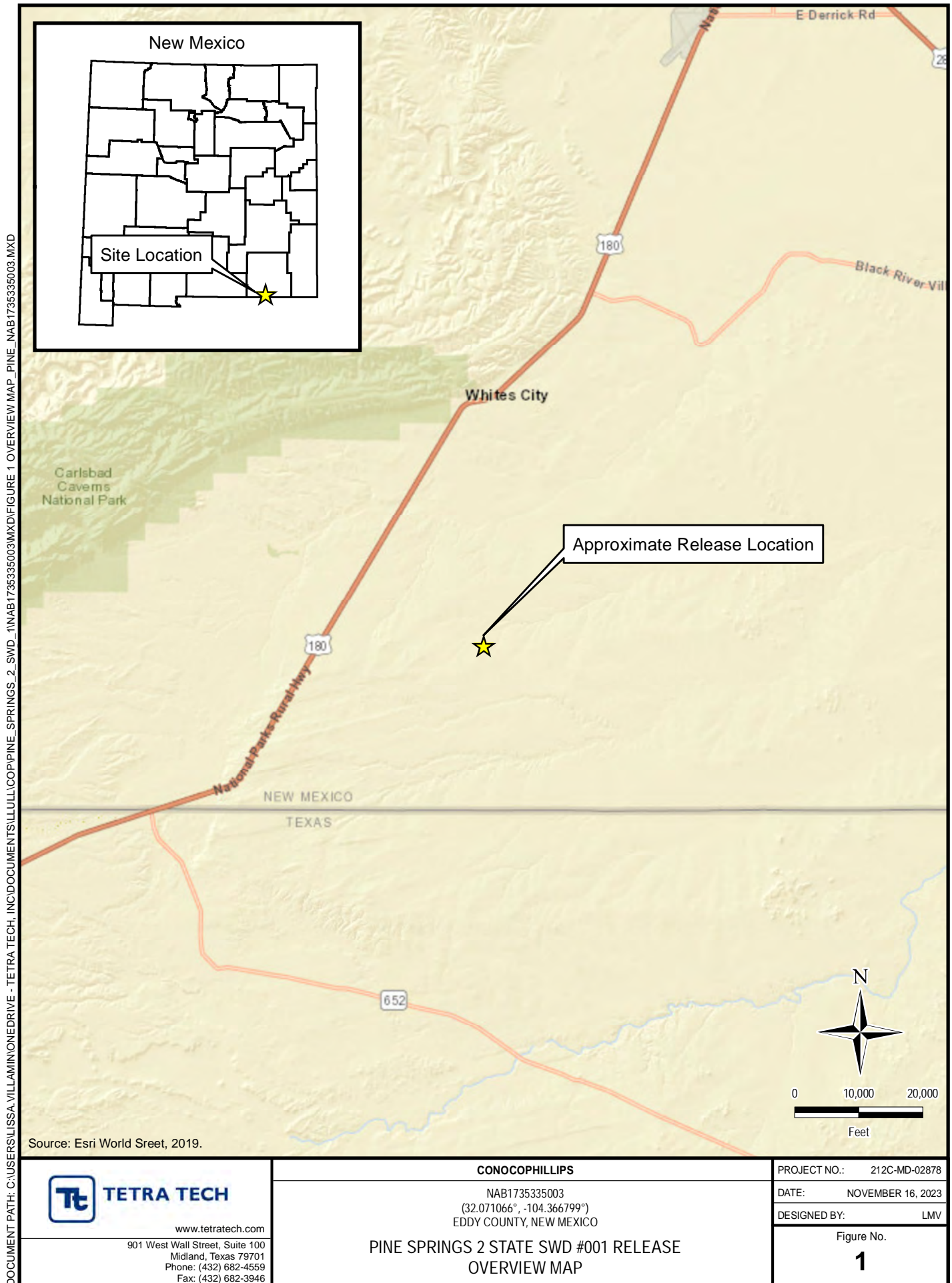
Tables:

- Table 1 – Summary of Analytical Results – 2018 Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Soil Assessment
- Table 3 – Summary of Analytical Results – 2024 Soil Confirmation Sampling
- Table 4 – Summary of Analytical Results – 2024 Soil Backfill

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Regulatory Correspondence
- Appendix C – Site Characterization
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Data (Remediation & Backfill)

FIGURES



DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\ILLUICOP\PINE SPRINGS 2 SWD - \NAB1735335003\MXD\FIGURE 2 TOPO MAP.PINE NAB1735335003.MXD

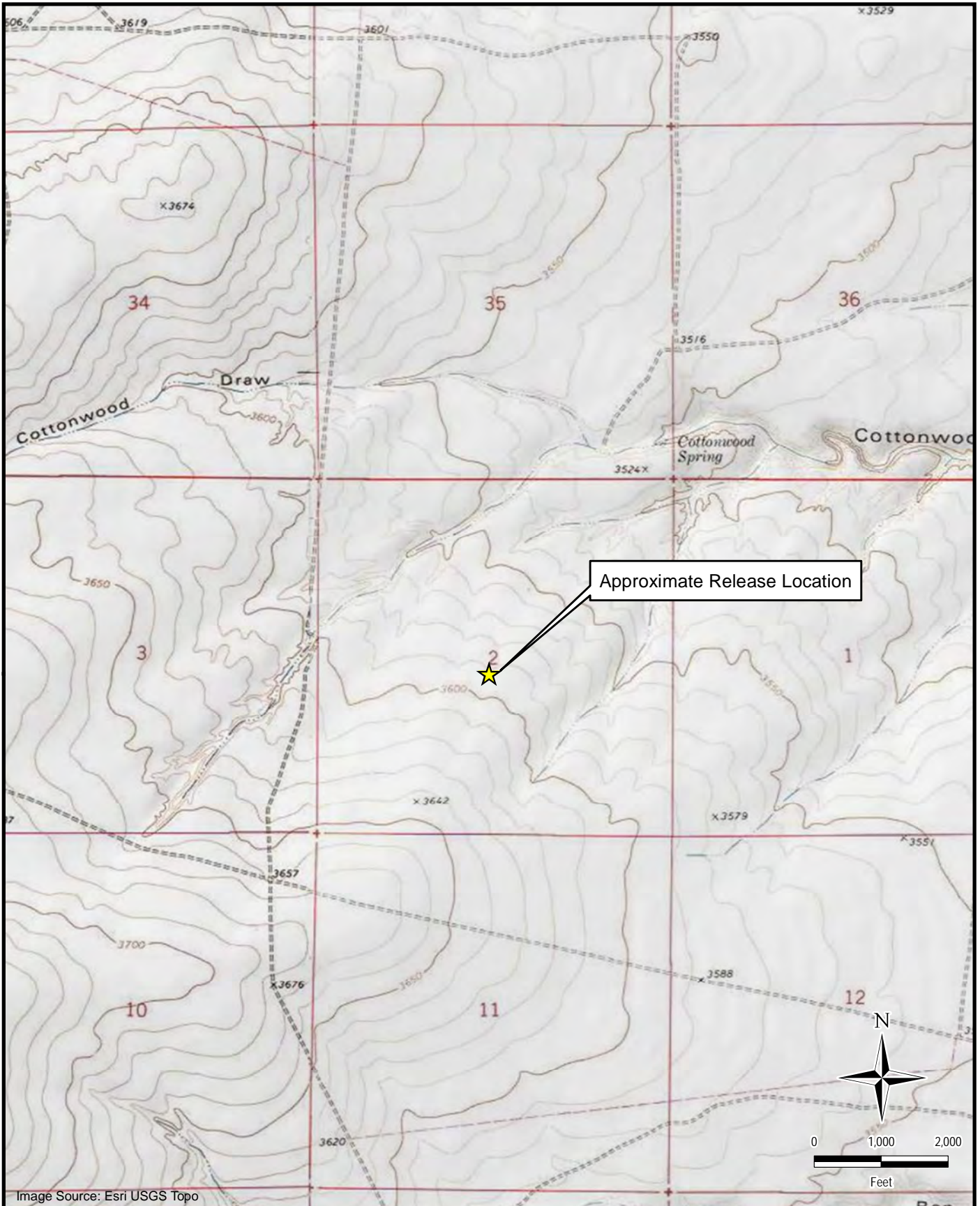


Image Source: Esri USGS Topo



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CONOCOPHILLIPS

NAB1735335003
(32.071066°, -104.366799°)
EDDY COUNTY, NEW MEXICO

**PINE SPRINGS 2 STATE SWD #001 RELEASE
TOPOGRAPHIC MAP**

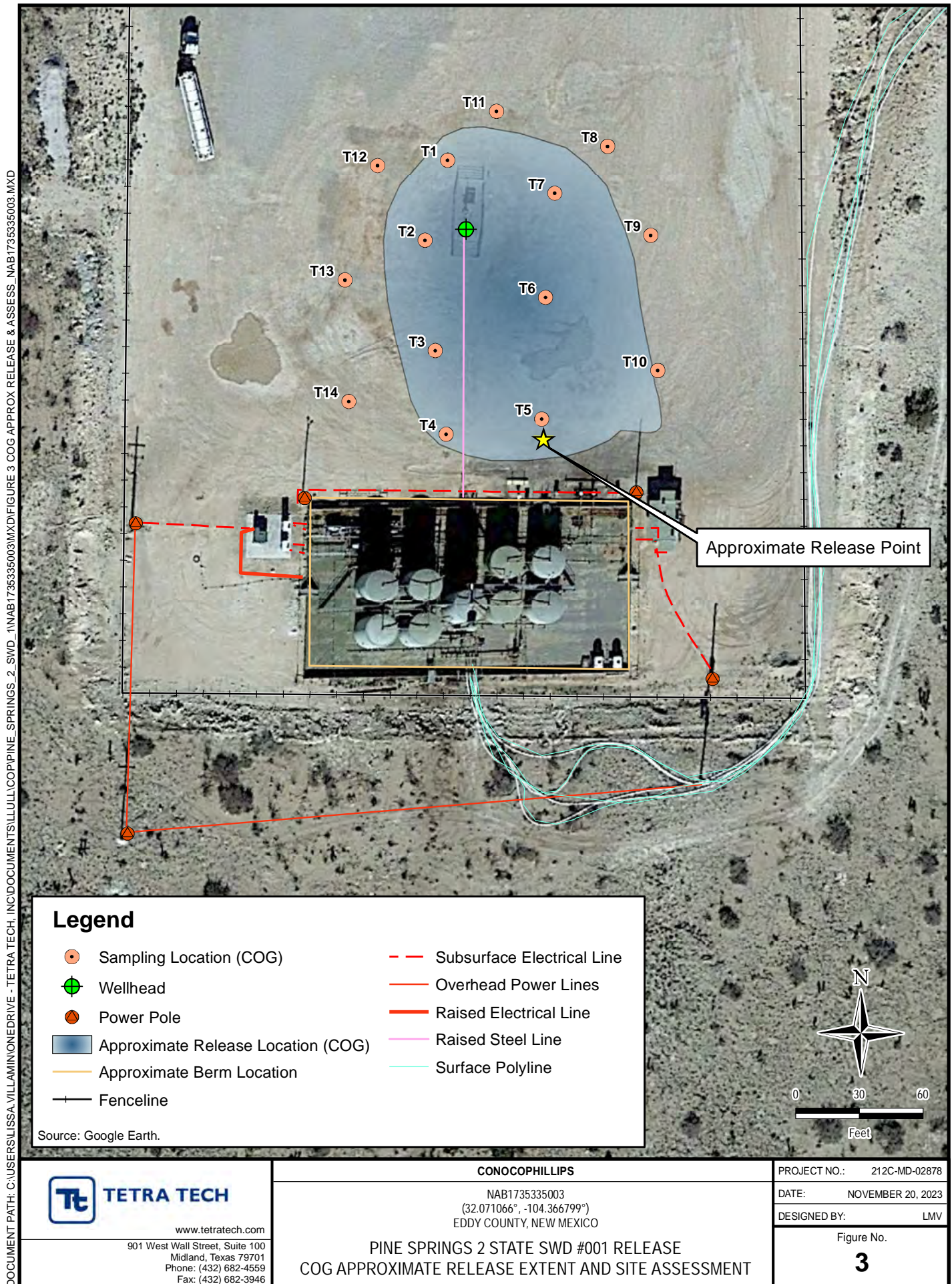
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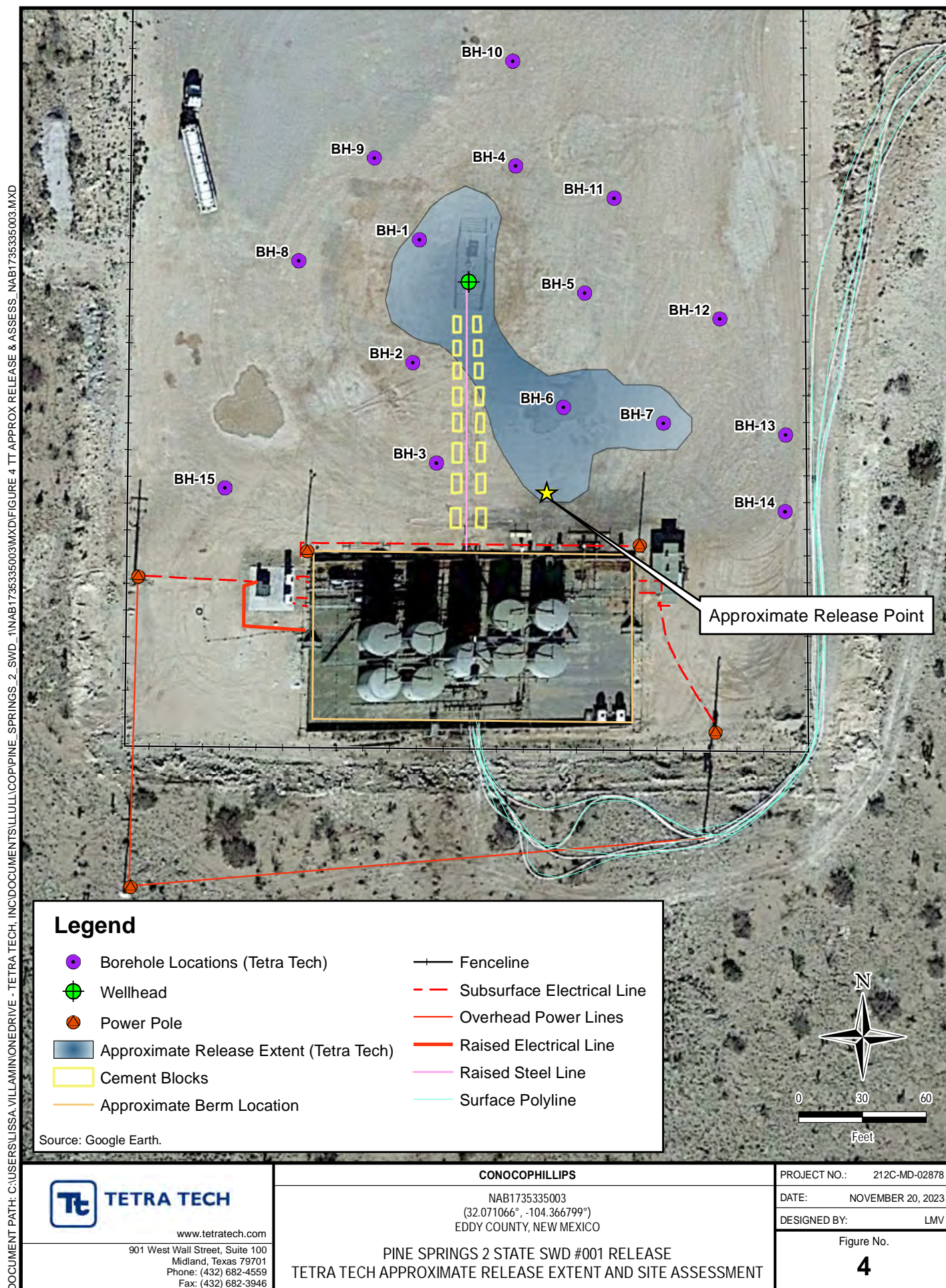
DATE: NOVEMBER 16, 2023

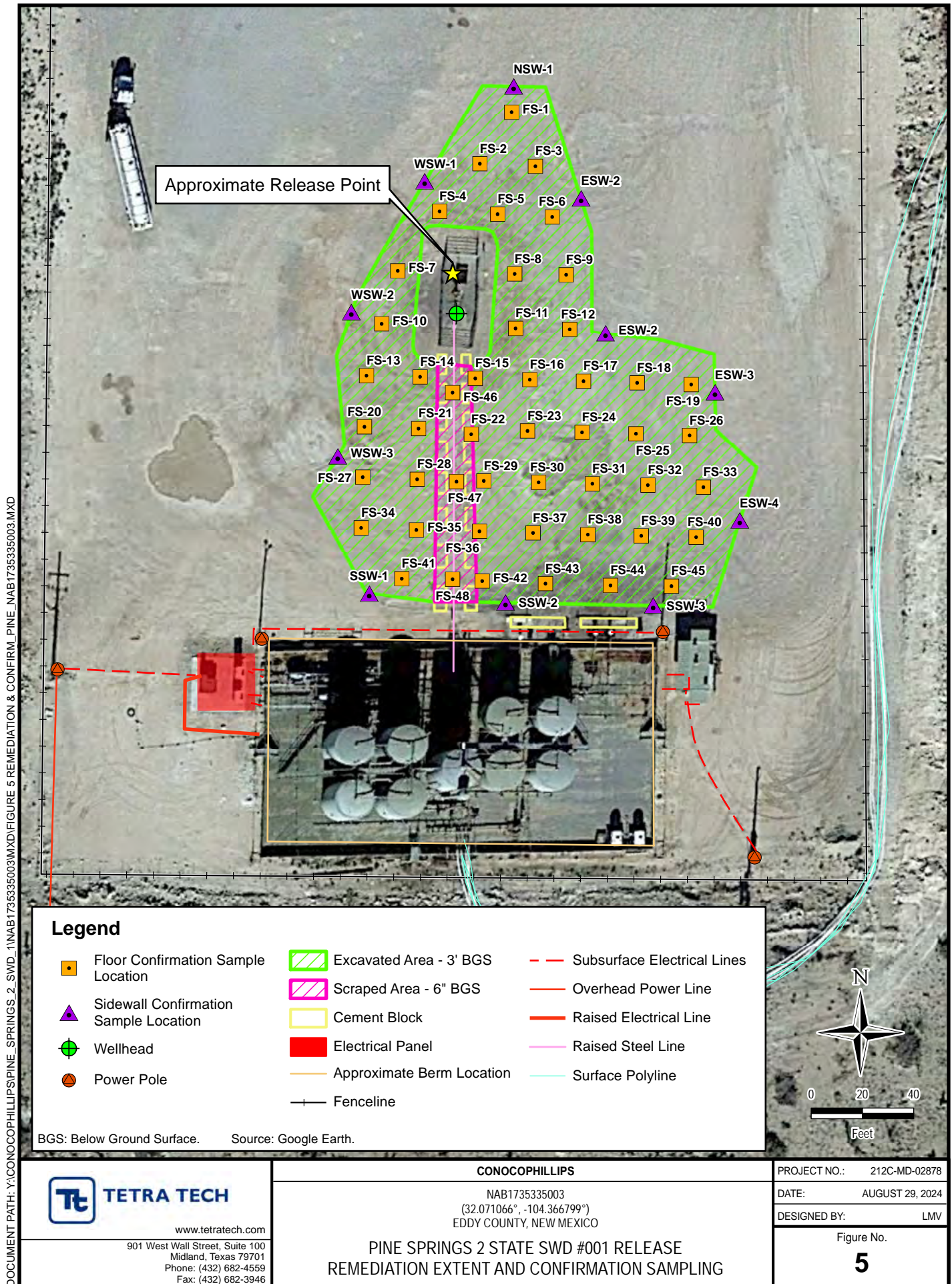
DESIGNED BY: LMV

Figure No.

2







TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2018 SOIL ASSESSMENT - NAB1735335003/2RP-4523
CONOCOPHILLIPS
PINE SPRINGS 2 STATE SWD #1 RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³											
					Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH	
			ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
T1	9/17/2018	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	
		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	
T2	9/17/2018	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	
		3	765		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4	415		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5	1,120		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6	391		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7	986		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		8	286		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
T3	9/17/2018	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		<0.00199		<0.00199		<0.00199		<0.00398		<0.00199		<0.00199		<0.00199		<15.0		<15.0		<15.0		<15.0	
		2	75.1		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		3	182		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	
T4	9/17/2018	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	
		2	197		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	
T5	9/17/2018	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	
		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	
T6	9/17/2018	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	
		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	
T7	9/17/2018	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	
		3	190		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4	105		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		5	68.0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6	91.0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		7	145		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
T8	9/17/2018	0	513		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	
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	
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 EPA Method 300.0

2 EPA Method 8021B

3 Method SW8015 Mod

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

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 Screening Results		Chloride ¹		BTEX ²										TPH ³							
			Chloride	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q	(GRO+DRO+EXT DRO)
BH-1	11/8/2023	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		-	
		3-4'	-	420	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6'	-	400	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		6-7'	-	200	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-2	11/8/2023	0-1'	-	-	1,620		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4'	-	225	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-3	11/8/2023	0-1'	-	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-4	11/7/2023	0-1'	-	-	1,810		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4'	-	420	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-5	11/8/2023	0-1'	-	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-6	11/8/2023	0-1'	-	-	1260		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4'	-	320	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6'	-	400	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		6-7'	-	200	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-7	11/8/2023	0-1'	-	-	1200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3'	-	-	1120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4'	-	300	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-8	11/7/2023	0-1'	-	540	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-9	11/7/2023	0-1'	-	300	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-10	11/7/2023	0-1'	-	275	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-11	11/8/2023	0-1'	-	375	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-12	11/8/2023	0-1'	-	400	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-13	11/8/2023	0-1'	-	220	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-14	11/8/2023	0-1'	-	200	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-15	11/8/2023	0-1'	-	400	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500CI-B
2 Method 8021B
3 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.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL CONFIRMATION SAMPLING - NAB1735335003 NAB1817955890
CONOCOPHILLIPS
PINE SPRINGS 2 STATE SWD #1 RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)			
FS-1	8/21/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-2	8/21/2024	3	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-3	8/21/2024	3	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-4	8/21/2024	3	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-5	8/22/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-6	8/22/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-7	8/21/2024	3	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-8	8/22/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-9	8/22/2024	3	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-10	8/21/2024	3	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-11	8/22/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-12	8/22/2024	3	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-13	8/21/2024	3	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-14	8/21/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-15	8/27/2024	3	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-16	8/20/2024	3	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-17	8/20/2024	3	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-18	8/20/2024	3	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-19	8/20/2024	3	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-20	8/21/2024	3	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-21	8/21/2024	3	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-22	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-23	8/21/2024	3	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-24	8/20/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-25	8/20/2024	3	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-26	8/20/2024	3	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-27	8/21/2024	3	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-28	8/21/2024	3	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-29	8/21/2024	3	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-30	8/21/2024	3	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-31	8/21/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-32	8/21/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-33	8/21/2024	3	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-34	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-35	8/21/2024	3	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-36	8/21/2024	3	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-37	8/21/2024	3	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-38	8/21/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		
FS-39	8/21/2024	3	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL CONFIRMATION SAMPLING - NAB1735335003 NAB1817955890
CONOCOPHILLIPS
PINE SPRINGS 2 STATE SWD #1 RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-40	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-41	8/21/2024	3	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-42	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-43	8/21/2024	3	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-44	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-45	8/21/2024	3	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-46	8/27/2024	0.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-47	8/27/2024	0.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
FS-48	8/27/2024	0.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
NSW-1	8/15/2024	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
ESW-1	8/15/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
ESW-2	8/15/2024	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
ESW-3	8/20/2024	-	112		<0.150		<0.150		<0.150		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
ESW-4	8/20/2024	-	112		<0.150		<0.150		<0.150		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
SSW-1	8/15/2024	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
SSW-2	8/20/2024	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
SSW-3	8/20/2024	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
WSW-1	8/15/2024	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
WSW-2	8/15/2024	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0
WSW-3	8/15/2024	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<10.0

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of Site RRALs approved by the NMOCD.

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

QUALIFIERS:

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL BACKFILL - NAB1735335003 NAB1817955890
CONOCOPHILLIPS
PINE SPRINGS 2 STATE SWD #1
EDDY COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³							
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
														C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		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		
BACKFILL - COMPOSITE	8/22/2024	128		<0.025		<0.050		<0.050		<0.150		<0.2.75		<10.0		<10.0		<10.0		-	

NOTES:

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 316833

QUESTIONS

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

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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure 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.

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 316833

QUESTIONS (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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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@tetrattech.com Date: 02/22/2024
--	--

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QUESTIONS, Page 3

Action 316833

QUESTIONS (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**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 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.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	10700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	201
GRO+DRO	(EPA SW-846 Method 8015M)	150
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	05/15/2024
On what date will (or did) the 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	7520
What is the estimated volume (in cubic yards) that will be reclaimed	724
What is the estimated surface area (in square feet) that will be remediated	7520
What is the estimated volume (in cubic yards) that will be remediated	724

These estimated dates and measurements are recognized to be the best guess or calculation at the 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.

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QUESTIONS, Page 4

Action 316833

QUESTIONS (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**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@tetrattech.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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QUESTIONS, Page 5

Action 316833

QUESTIONS (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

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

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QUESTIONS, Page 6

Action 316833

QUESTIONS (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

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 316833

CONDITIONS

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)

CONDITIONS

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

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 14 2017

Form C-141
Revised April 3, 2017

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

RECEIVED
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

NAB1735335003 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC 229137	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	PINE SPRINGS 2 STATE SWD #001	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	State
		API No.	30-015-42348

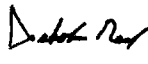
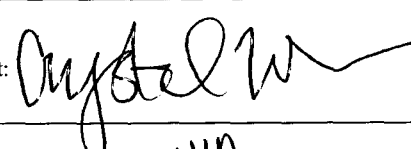
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	02	26S	25E	2500'	South	2500'	West	Eddy

Latitude 32.071434

Longitude 104.3667831

NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	6 bbls PW	Volume Recovered:	0 bbls PW
Source of Release:	Valve	Date and Hour of Occurrence:	12-12-2017 7:00 AM	Date and Hour of Discovery:	12-12-2017 7:00 AM
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour:			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.*					
This release was caused by a valve being left in the wrong position on the trucking load lane. The valve was placed in the correct position.					
Describe Area Affected and Cleanup Action Taken.*					
This release occurred on the location in front of the facility. Concho will have the spill area evaluated for any possible impact from the release and will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Dakota Neel		Approved by Environmental Specialist: 			
Title: HSE Coordinator		Approval Date: 12/18/17		Expiration Date: N/A	
E-mail Address: dneel2@concho.com		Conditions of Approval: see attached		Attached <input checked="" type="checkbox"/> APP-4523	
Date: December 14, 2017		Phone: 575-746-2010			

* Attach Additional Sheets If Necessary

12/15/17 AB

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 2RP-4523 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 division-approved corrective action 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: 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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Incident ID	
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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Oil Conservation Division

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:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan


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

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

Regulatory Correspondence



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
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 6734

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

COG Operating LLC
2208 West Main Street
Artesia, NM 88210

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

1. RIGHT OF ENTRY ("ROE")

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

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

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

2. TERM AND TERMINATION

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

3. FEES

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

RE-6734

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 any 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.

RE-6734

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


PERMITTEE SIGNATURE *UAC*
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



NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie 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 1st Re-issue

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

COG Operating LLC
2208 West Main Street
Artesia, NM 88210

(“Permittee”). The parties agree as follows:

1. RIGHT OF ENTRY (“ROE”)

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

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

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

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on April 20, 2024 and expiring on October 17, 2024.

3. FEES

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

RE-6734 1st Re-issue

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 any 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.

RE-6734 1st Re-issue

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

Ake Tavaraz
PERMITTEE SIGNATURE

DATE: _____

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: _____

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: _____

Poole, Nicholas

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Monday, July 1, 2024 10:23 AM
To: Poole, Nicholas; Enviro, OCD, EMNRD
Subject: RE: [EXTERNAL] Extension Request - NAB1735335003 (Pine Springs 2 State SWD #001)

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

Your extension request of September 29, 2024 has been approved and updated in Permitting.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or> <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Sent: Monday, July 1, 2024 7:45 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request - NAB1735335003 (Pine Springs 2 State SWD #001)

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

Ms. Maxwell,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until September 29, 2024) to complete remedial activities and associated reporting for the Pine Springs 2 State SWD #001 Release Site (**NAB1735335003**). There are two releases associated with the Pine Springs 2 State SWD #001, **2RP-4523 / nAB1735335003** and **2RP-4832 / nAB1817955890**. The two release footprints are coincident. Separate work plans were submitted for each incident ID, but the two releases will be addressed in unison with a single remediation scope of work.

The Revised Release Characterization and Remediation Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCDD on February 22, 2024. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved by the NMOCDD on Monday February 26, 2024, with the following comment:

- "Remediation plan approved. Submit a report via the OCD permitting portal by July 1, 2024."

A NM SLO Right of Entry Permit was prepared and submitted for on May 22, 2024, **CONTRACT NO. RE – 6734 1st Re-Issue**. The permit was re-issued on June 11, 2024.

Tetra Tech is currently preparing for remedial action at the project site. Solaris is the current owner and operator of the facility and SWD. A raised steel SWD line extends from the tank battery to the well, across the release extents. Tetra Tech is currently coordinating with Solaris to remove protective concrete blocks, to gain access to, and remediate beneath and in the vicinity of the steel line. Please see attached the figure indicating known utilities within the release footprints, which precipitate the need for additional time and preparation. Worker safety is of paramount importance to ConocoPhillips and a remediation in an area such as this cannot be rushed. Thus additional time is required to ensure the safety of field personnel and to eliminate any possible additional unwanted impacts to the environment resulting from an unplanned incident. Remedial activities are currently scheduled to begin first week of August.

Once the remedial activities are complete, and confirmation sampling data is collected, tabulated, and evaluated, a closure report will be submitted to the OCD.

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

Thank you in advance.

Nicholas

Nicholas Poole, GIT | Project Manager
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

Tetra Tech | *Leading with Science*® | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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Please consider the environment before printing. [Read more](#)



Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, August 12, 2024 3:25 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 372905

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1735335003.

The sampling event is expected to take place:

When: 08/15/2024 @ 09:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling will be conducted from August 15, 2024 through August 23, 2024.

Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Eddy County, New Mexico

Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, August 12, 2024 3:27 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 372912

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1817955890.

The sampling event is expected to take place:

When: 08/15/2024 @ 09:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling will be conducted from August 15, 2024 through August 23, 2024.

Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Eddy County, New Mexico

Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive
Santa Fe, NM 87505

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Thursday, August 15, 2024 2:53 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 374375

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1735335003.

The sampling event is expected to take place:

When: 08/20/2024 @ 10:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling at the Release Incident Site will be conducted on 8/20 and 8/21 and 8/22 and 8/23. Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Additional Instructions: Eddy County, New Mexico
Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Thursday, August 15, 2024 2:56 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 374382

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1817955890.

The sampling event is expected to take place:

When: 08/20/2024 @ 10:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling at the Release Incident Site will be conducted on 8/20 and 8/21 and 8/22 and 8/23. Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Eddy County, New Mexico

Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, August 26, 2024 12:20 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 377565

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1735335003.

The sampling event is expected to take place:

When: 08/28/2024 @ 13:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling at the Release Incident Site will be conducted this week. Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Additional Instructions: Eddy County, New Mexico
Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, August 26, 2024 12:23 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 377568

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

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1817955890.

The sampling event is expected to take place:

When: 08/28/2024 @ 13:00

Where: K-02-26S-25E 2500 FSL 2500 FWL (32.071434,-104.3667831)

Additional Information: Sampling at the Release Incident Site will be conducted Wednesday. Please contact: Nicholas Poole at 512.560.9064 or via email at nicholas.poole@tetrattech.com for any questions.

Additional Instructions: Additional Instructions: Eddy County, New Mexico
Approximate Location: 32.071066°, -104.366799°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

APPENDIX C

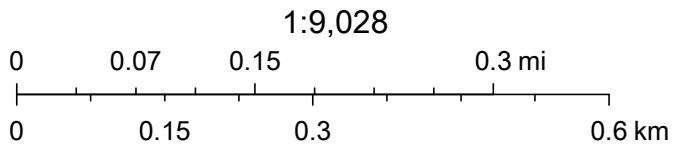
Site Characterization Data

OCD Waterbodies Map



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

— OSE Streams



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

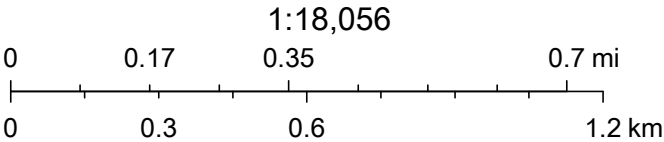
OCD Karst Map



10/28/2022, 8:18:43 AM

Karst Occurrence Potential

High



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03321	C	ED	64	16	4	1	1	11	26S	25E	559375	3547431	1152	150	23	127

Average Depth to Water: 23 feet

Minimum Depth: 23 feet

Maximum Depth: 23 feet

Record Count: 1

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.

10/31/22 9:31 AM

Page 1 of 1

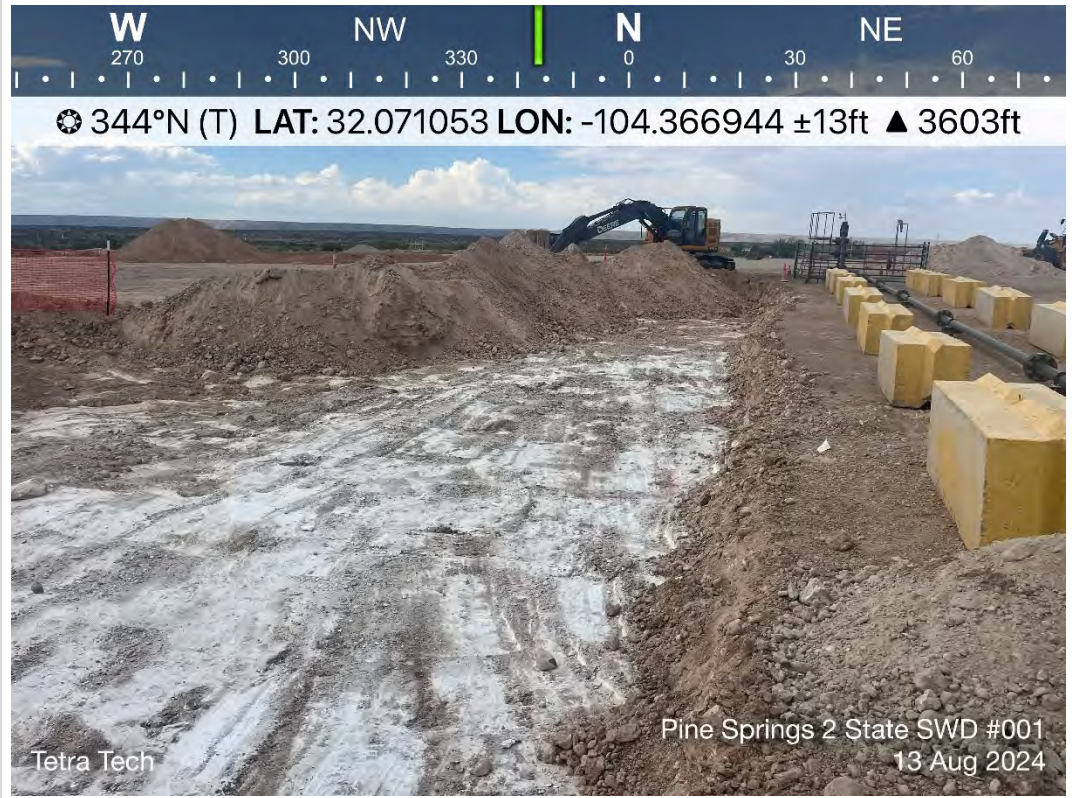
WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX D

Photographic Documentation



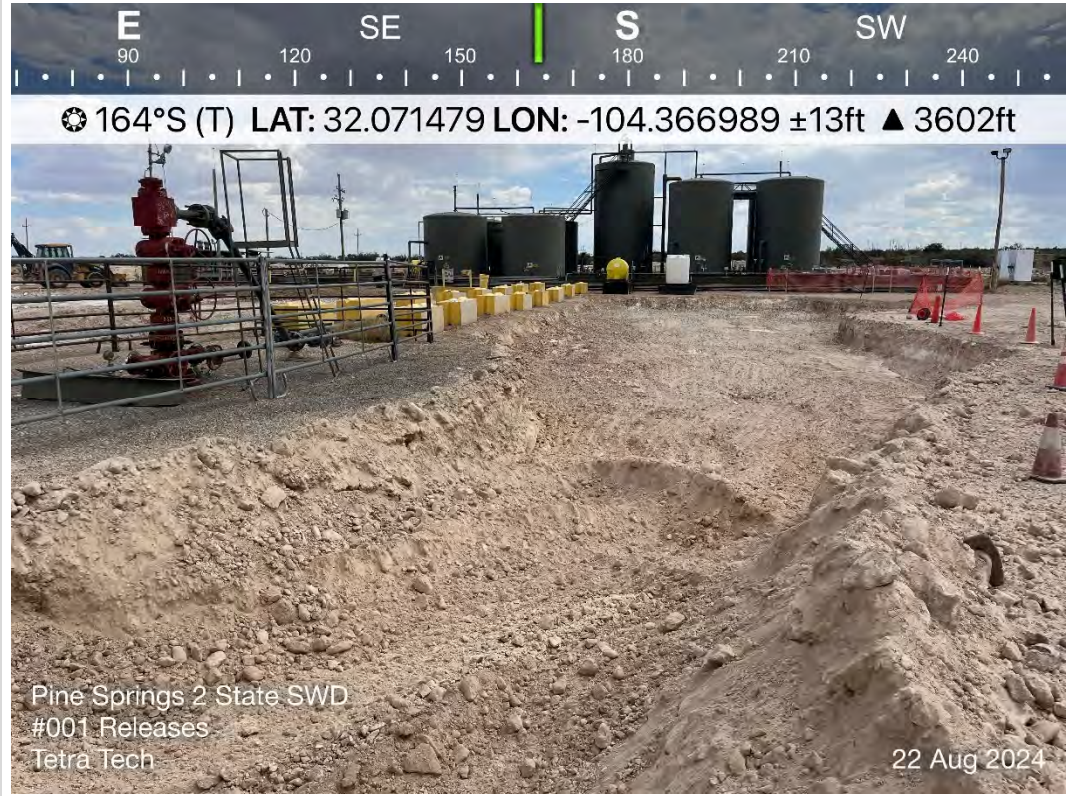
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View southwest. Initial excavation on western section of approved work plan.	1
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/13/2024



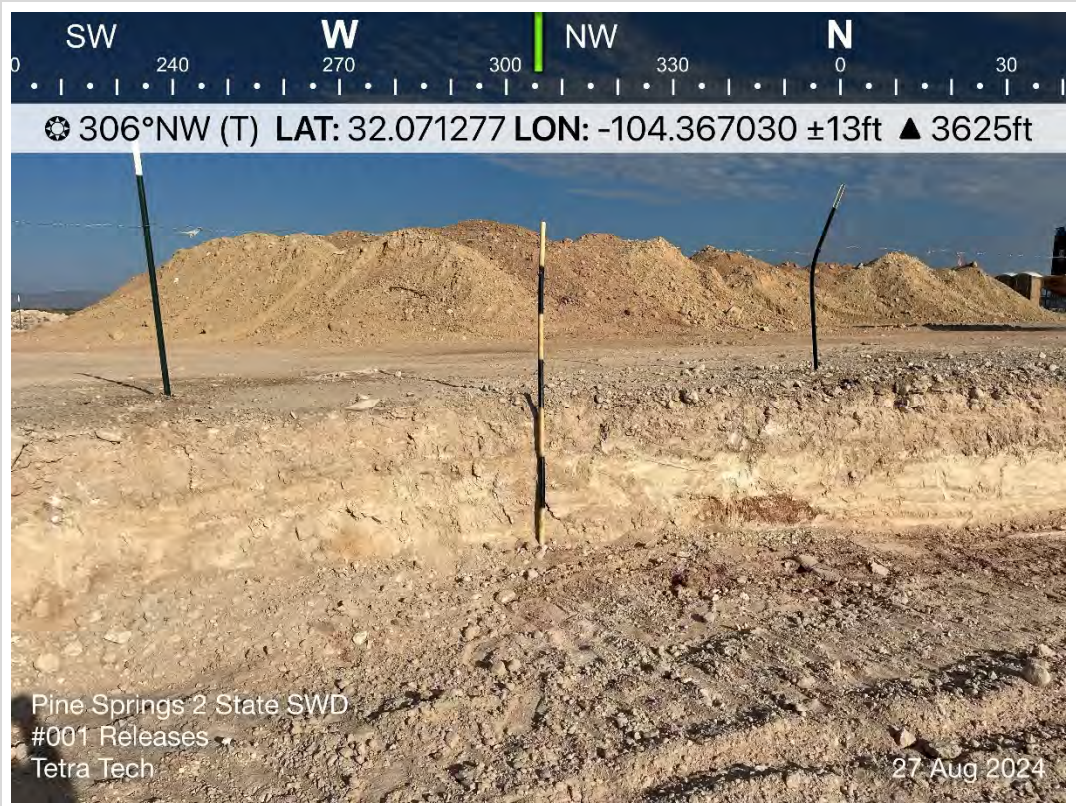
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Start of excavation at Site for approved work plan.	2
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/13/2024



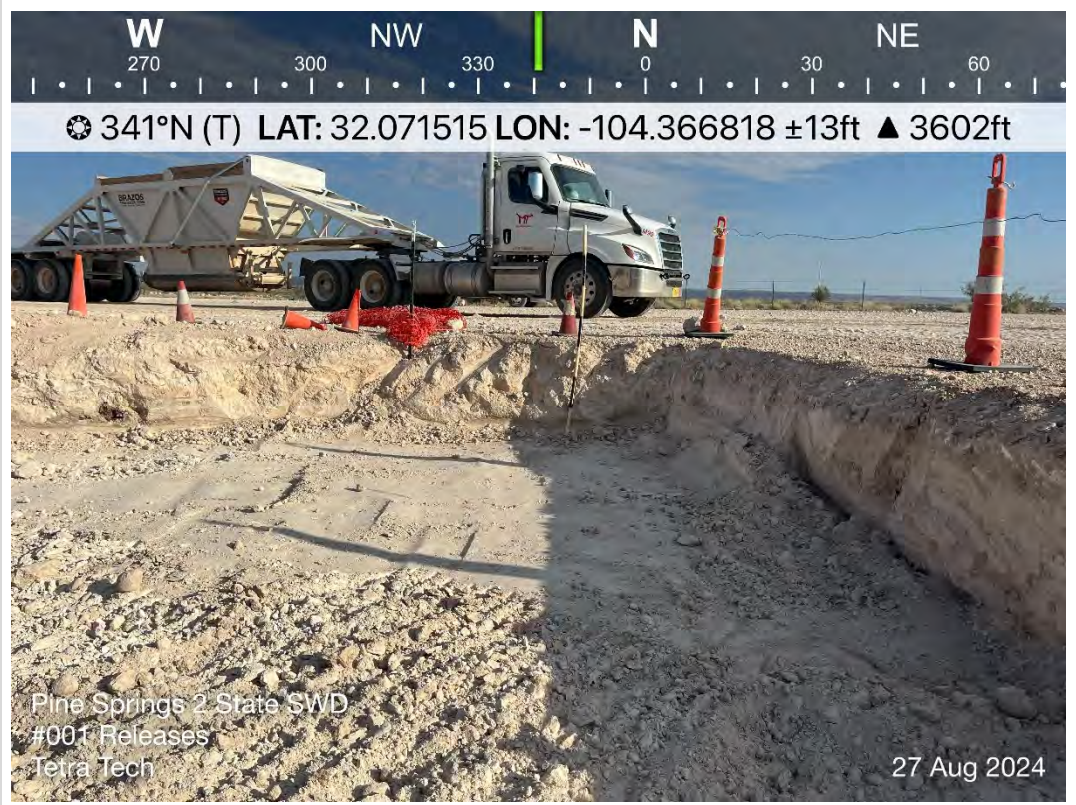
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View northeast. Eastern section of excavation progressing from approved work plan.	3
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/19/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south. Western section of excavation with wellhead visible on left-side of photo.	4
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/22/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View northwest. Western sidewall with measuring stick indicating depth of excavation.	5
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Northern sidewall with measuring stick indicating depth of excavation.	6
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



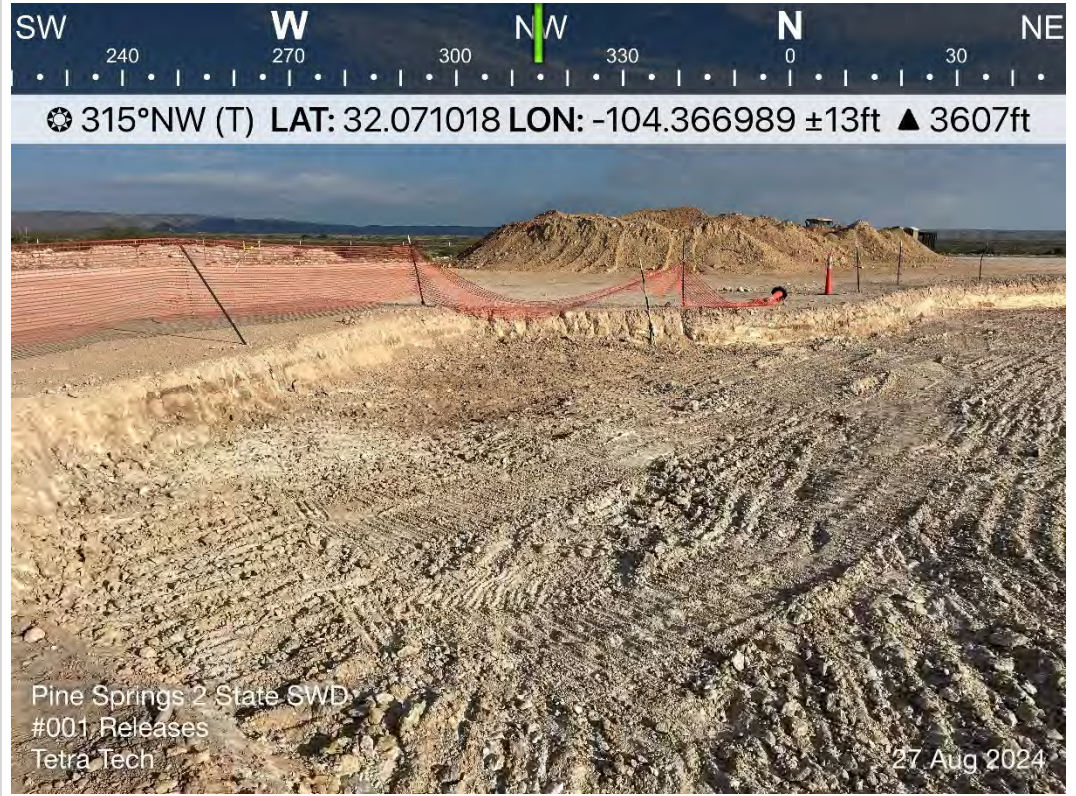
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View east. Eastern sidewall with measuring stick indicating depth of excavation.	7
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View southeast. Photo taken from northern extent of excavation, view of eastern sidewall.	8
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View northwest. Northeast section of excavation.	9
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View northwest. Western portion of excavation and sidewall visible with measuring stick for reference.	10
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Area of excavation west of critical facilities including well head and raised steel pipeline.	11
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Raised steel line surrounded by large cement blocks. Area of 6 inch scrape.	12
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



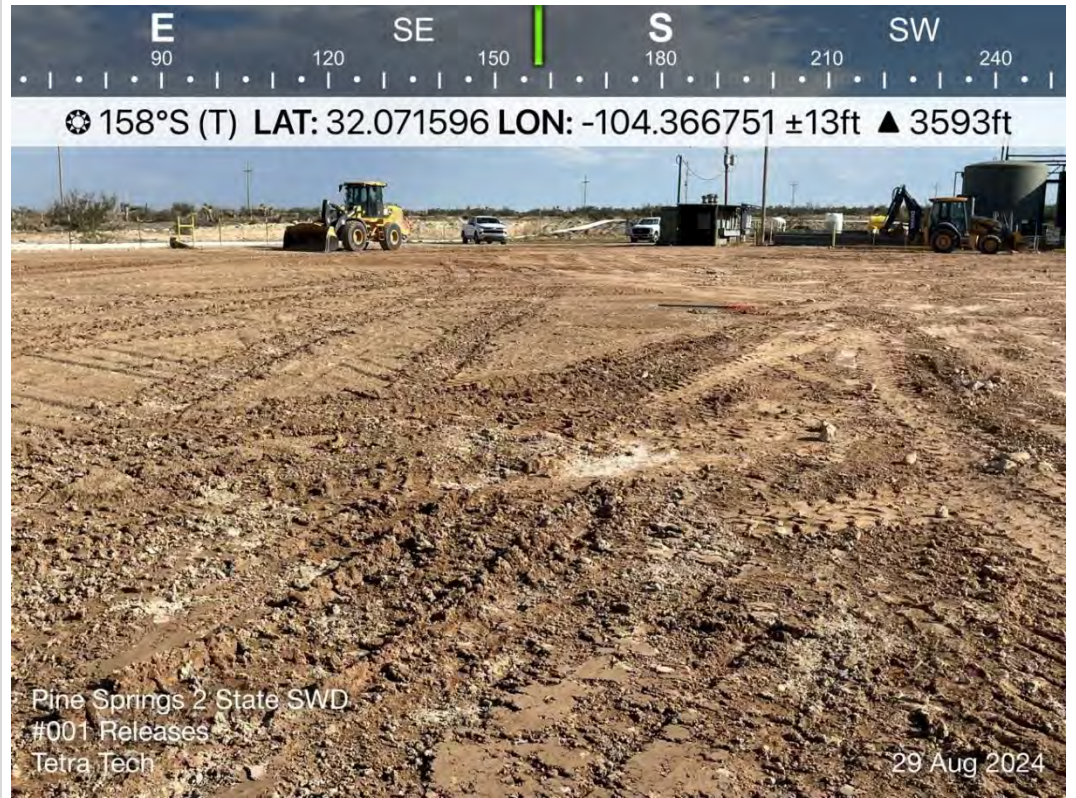
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south. Area of 6 inch scrape surrounding raised steel line.	13
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Western section of excavation backfilled with clean materials.	14
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/29/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south. Backfilled excavation.	15
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/29/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south-southeast. Eastern section of excavation backfilled with clean materials.	16
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/29/2024

APPENDIX E

Laboratory Analytical Data (Remediation & Backfill)



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

August 16, 2024

NICHOLAS POOLE

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 08/15/24 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: NSW - 1 (H244977-01)

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	08/15/2024	ND	2.08	104	2.00	8.12	
Toluene*	<0.050	0.050	08/15/2024	ND	1.99	99.6	2.00	7.75	
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	1.99	99.4	2.00	7.79	
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.89	98.1	6.00	7.94	
Total BTEX	<0.300	0.300	08/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/16/2024	ND	416	104	400	3.92	

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: ESW - 1 (H244977-02)

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	08/15/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/15/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.89	98.1	6.00	7.94		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/16/2024	ND	416	104	400	3.92		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: ESW - 2 (H244977-03)

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	08/15/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/15/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/15/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/15/2024	ND	5.89	98.1	6.00	7.94		
Total BTEX	<0.300	0.300	08/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/16/2024	ND	416	104	400	3.92		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: WSW - 1 (H244977-04)

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	08/16/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.89	98.1	6.00	7.94		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/16/2024	ND	416	104	400	0.00		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: WSW - 2 (H244977-05)

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	08/16/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.89	98.1	6.00	7.94		
Total BTEx	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-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	08/16/2024	ND	416	104	400	0.00		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2024
 Reported: 08/16/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/15/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WSW - 3 (H244977-06)

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	08/16/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.89	98.1	6.00	7.94		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/16/2024	ND	416	104	400	0.00		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SSW - 1 (H244977-07)

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	08/16/2024	ND	2.08	104	2.00	8.12		
Toluene*	<0.050	0.050	08/16/2024	ND	1.99	99.6	2.00	7.75		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	1.99	99.4	2.00	7.79		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	5.89	98.1	6.00	7.94		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/16/2024	ND	416	104	400	0.00		

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	08/16/2024	ND	199	99.4	200	2.72	
DRO >C10-C28*	<10.0	10.0	08/16/2024	ND	197	98.3	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	08/16/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Page 10 of 10



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

August 21, 2024

NICHOLAS POOLE

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 08/20/24 16:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SSW - 3 (H245069-01)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEx	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/20/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/20/2024
 Reported: 08/21/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 16 (H245069-02)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/20/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/20/2024
 Reported: 08/21/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 17 (H245069-03)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/20/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 19 (H245069-04)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/20/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: ESW - 4 (H245069-05)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/20/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 24 (H245069-06)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/21/2024	ND	448	112	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/20/2024
 Reported: 08/21/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 26 (H245069-07)

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	08/21/2024	ND	2.09	104	2.00	3.09	
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13	
Total BTEX	<0.300	0.300	08/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

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	08/21/2024	ND	448	112	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: ESW - 3 (H245069-08)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/21/2024	ND	432	108	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 25 (H245069-09)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/21/2024	ND	432	108	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: SSW - 2 (H245069-10)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEX	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/21/2024	ND	432	108	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/20/2024	Sampling Date:	08/20/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 18 (H245069-11)

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	08/21/2024	ND	2.09	104	2.00	3.09		
Toluene*	<0.050	0.050	08/21/2024	ND	1.98	99.2	2.00	3.65		
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	1.98	98.8	2.00	4.16		
Total Xylenes*	<0.150	0.150	08/21/2024	ND	5.88	97.9	6.00	4.13		
Total BTEx	<0.300	0.300	08/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/21/2024	ND	432	108	400	3.64		

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	08/21/2024	ND	206	103	200	1.58	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	192	96.2	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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Page 1 of 2

Page 14 of 15

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

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

August 23, 2024

NICHOLAS POOLE

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 08/22/24 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 1 (H245118-01)

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	08/22/2024	ND	2.07	103	2.00	2.28	
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 2 (H245118-02)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 3 (H245118-03)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 4 (H245118-04)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 7 (H245118-05)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 10 (H245118-06)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 13 (H245118-07)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 14 (H245118-08)

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	08/22/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/22/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 15 (H245118-09)

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	08/23/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 20 (H245118-10)

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	08/23/2024	ND	2.07	103	2.00	2.28	
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.18	109	2.00	2.49	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.72	112	6.00	2.51	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 21 (H245118-11)

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	08/23/2024	ND	2.07	103	2.00	2.28		
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.18	109	2.00	2.49		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.72	112	6.00	2.51		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 22 (H245118-12)

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	08/23/2024	ND	2.07	103	2.00	2.28	
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.18	109	2.00	2.49	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.72	112	6.00	2.51	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 23 (H245118-13)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	206	103	200	0.386	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	186	93.2	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 27 (H245118-14)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/22/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 28 (H245118-15)

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	08/22/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/22/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 29 (H245118-16)

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	08/22/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/22/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 30 (H245118-17)

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	08/22/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 31 (H245118-18)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 32 (H245118-19)

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	08/22/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 33 (H245118-20)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 34 (H245118-21)

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	08/22/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 35 (H245118-22)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 36 (H245118-23)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 37 (H245118-24)

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	08/22/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/22/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 38 (H245118-25)

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	08/23/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 39 (H245118-26)

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	08/23/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 40 (H245118-27)

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	08/23/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 41 (H245118-28)

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	08/23/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 42 (H245118-29)

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	08/23/2024	ND	2.27	113	2.00	2.77	
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64	

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 03105A
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 43 (H245118-30)

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	08/23/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 44 (H245118-31)

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	08/23/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03105A	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 45 (H245118-32)

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	08/23/2024	ND	2.27	113	2.00	2.77		
Toluene*	<0.050	0.050	08/23/2024	ND	2.26	113	2.00	3.74		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.35	118	2.00	6.31		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.07	118	6.00	6.20		
Total BTEx	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/23/2024	ND	432	108	400	3.64		

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	08/23/2024	ND	210	105	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	205	102	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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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

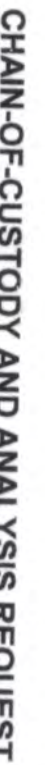
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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Page 1 of 4

Page 35 of 38

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

Company Name: Conaco Phillips						BILL TO							
Project Manager: Nicholas Poole						P.O. #:							
Address:						Company: Tetra Tech							
City:						Attn: Nicholas Poole							
State:						Address:							
Zip:													
Phone #:													
Fax #:													
Project #: 212C-MD-03105 A Project Owner:						City:							
Project Name: Pine Springs 2 State SMD #001						State:							
Project Location: Eddy Co., NM						Zip:							
Sample Name: Andrew Garcia						Phone #:							
FOR LAB USE ONLY						Fax #:							
Lab I.D.						Sample I.D.							
H245718						(G)RAB OR (C)OMP.							
						# CONTAINERS							
						GROUNDWATER							
						WASTEWATER							
						SOIL							
						OIL							
						SLUDGE							
						OTHER :							
						ACID/BASE:							
						ICE / COOL							
						OTHER :							
						DATE							
						TIME							
11						X							
12						X							
13						X							
14						X							
15						X							
16						X							
17						X							
18						X							
19						X							
20						X							
FS-21						TPEX							
FS-22						BTEx							
FS-23						Chlorides							
FS-27													
FS-28													
FS-29													
FS-30													
FS-31													
FS-32													
FS-33													
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Relinquished By:						Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:							
Date: 8/24/24						All Results are emailed. Please provide Email address:							
Time: 1415						Nicholas Poole @ Tetratech.com							
Relinquished By: Andrew Garcia						REMARKS: Andrew Garcia @ Tetratech.com							
Date: 8/24/24													
Time: 1415													
Received By: [Signature]													
Delivered By: (Circle One)						Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>							
Sampler - UPS - Bus - Other:						Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Observed Temp. °C							
FORM-000 R 3.3 07/19/22						Thermometer ID #446 Correction Factor -0.8°C							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 4

Company Name: <u>Conoco Phillips</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Nicholas Poole</u>		Company: <u>Tetra Tech</u>			
Address:		Attn: <u>Nicholas Poole</u>			
City:		Address:			
State:		City:			
Zip:		State:			
Phone #:		Fax #:			
Project #: <u>212C-MD-03105A</u>		Project Owner:			
Project Name: <u>Pine Springs 2 State SMD #001</u>		City:			
Project Location: <u>Eddy Co, NM</u>		State:			
Zip:		Phone #:			
Fax #:					
Sample Name: <u>Andrew Garcia</u>		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.			
<u>H245118</u>					
31		FS-34		C 1	
32		FS-35		C 1	
33		FS-36		C 1	
34		FS-37		C 1	
35		FS-38		C 1	
36		FS-39		C 1	
37		FS-40		C 1	
38		FS-41		C 1	
39		FS-42		C 1	
40		FS-43		C 1	
41		FS-44		C 1	
42		FS-45		C 1	
43		FS-46		C 1	
44		FS-47		C 1	
45		FS-48		C 1	
46		FS-49		C 1	
47		FS-50		C 1	
48		FS-51		C 1	
49		FS-52		C 1	
50		FS-53		C 1	
51		FS-54		C 1	
52		FS-55		C 1	
53		FS-56		C 1	
54		FS-57		C 1	
55		FS-58		C 1	
56		FS-59		C 1	
57		FS-60		C 1	
58		FS-61		C 1	
59		FS-62		C 1	
60		FS-63		C 1	
61		FS-64		C 1	
62		FS-65		C 1	
63		FS-66		C 1	
64		FS-67		C 1	
65		FS-68		C 1	
66		FS-69		C 1	
67		FS-70		C 1	
68		FS-71		C 1	
69		FS-72		C 1	
70		FS-73		C 1	
71		FS-74		C 1	
72		FS-75		C 1	
73		FS-76		C 1	
74		FS-77		C 1	
75		FS-78		C 1	
76		FS-79		C 1	
77		FS-80		C 1	
78		FS-81		C 1	
79		FS-82		C 1	
80		FS-83		C 1	
81		FS-84		C 1	
82		FS-85		C 1	
83		FS-86		C 1	
84		FS-87		C 1	
85		FS-88		C 1	
86		FS-89		C 1	
87		FS-90		C 1	
88		FS-91		C 1	
89		FS-92		C 1	
90		FS-93		C 1	
91		FS-94		C 1	
92		FS-95		C 1	
93		FS-96		C 1	
94		FS-97		C 1	
95		FS-98		C 1	
96		FS-99		C 1	
97		FS-100		C 1	
98		FS-101		C 1	
99		FS-102		C 1	
100		FS-103		C 1	
101		FS-104		C 1	
102		FS-105		C 1	
103		FS-106		C 1	
104		FS-107		C 1	
105		FS-108		C 1	
106		FS-109		C 1	
107		FS-110		C 1	
108		FS-111		C 1	
109		FS-112		C 1	
110		FS-113		C 1	
111		FS-114		C 1	
112		FS-115		C 1	
113		FS-116		C 1	
114		FS-117		C 1	
115		FS-118		C 1	
116		FS-119		C 1	
117		FS-120		C 1	
118		FS-121		C 1	
119		FS-122		C 1	
120		FS-123		C 1	
121		FS-124		C 1	
122		FS-125		C 1	
123		FS-126		C 1	
124		FS-127		C 1	
125		FS-128		C 1	
126		FS-129		C 1	
127		FS-130		C 1	
128		FS-131		C 1	
129		FS-132		C 1	
130		FS-133		C 1	
131		FS-134		C 1	
132		FS-135		C 1	
133		FS-136		C 1	
134		FS-137		C 1	
135		FS-138		C 1	
136		FS-139		C 1	
137		FS-140		C 1	
138		FS-141		C 1	
139		FS-142		C 1	
140		FS-143		C 1	
141		FS-144		C 1	
142		FS-145		C 1	
143		FS-146		C 1	
144		FS-147		C 1	
145		FS-148		C 1	
146		FS-149		C 1	
147		FS-150		C 1	
148		FS-151		C 1	
149		FS-152		C 1	
150		FS-153		C 1	
151		FS-154		C 1	
152		FS-155		C 1	
153		FS-156		C 1	
154		FS-157		C 1	
155		FS-158		C 1	
156		FS-159		C 1	
157		FS-160		C 1	
158		FS-161		C 1	
159		FS-162		C 1	
160		FS-163		C 1	
161		FS-164		C 1	
162		FS-165		C 1	
163		FS-166		C 1	
164		FS-167		C 1	
165		FS-168		C 1	
166		FS-169		C 1	
167		FS-170		C 1	
168		FS-171		C 1	
169		FS-172		C 1	
170		FS-173		C 1	
171		FS-174		C 1	
172		FS-175		C 1	
173		FS-176		C 1	
174		FS-177		C 1	
175		FS-178		C 1	
176		FS-179		C 1	
177		FS-180		C 1	
178		FS-181		C 1	
179		FS-182		C 1	
180		FS-183		C 1	
181		FS-184		C 1	
182		FS-185		C 1	
183		FS-186		C 1	
184		FS-187		C 1	
185		FS-188		C 1	
186		FS-189		C 1	
187		FS-190		C 1	
188		FS-191		C 1	
189		FS-192		C 1	
190		FS-193		C 1	
191		FS-194		C 1	
192		FS-195		C 1	
193		FS-196		C 1	
194		FS-197		C 1	
195		FS-198		C 1	
196		FS-199		C 1	
197		FS-200		C 1	
198		FS-201		C 1	
199		FS-202		C 1	
200		FS-203		C 1	
201		FS-204		C 1	
202		FS-205		C 1	
203		FS-206		C 1	
204		FS-207		C 1	
205		FS-208		C 1	
206		FS-209		C 1	
207		FS-210		C 1	
208		FS-211		C 1	
209		FS-212		C 1	
210		FS-213		C 1	
211		FS-214		C 1	
212		FS-215		C 1	
213		FS-216		C 1	
214		FS-217		C 1	
215		FS-218		C 1	
216		FS-219		C 1	
217		FS-220		C 1	
218		FS-221		C 1	
219		FS-222		C 1	
220		FS-223		C 1	
221		FS-224		C 1	
222		FS-225		C 1	
223		FS-226		C 1	
224		FS-227		C 1	
225		FS-228		C 1	
226		FS-229		C 1	
227		FS-230		C 1	
228		FS-231		C 1	
229		FS-232		C 1	
230		FS-233		C 1	
231		FS-234		C 1	
232		FS-235		C 1	
233		FS-236		C 1	
234		FS-237		C 1	
235		FS-238		C 1	
236		FS-239		C 1	
237		FS-240		C 1	
238		FS-241		C 1	
239		FS-242		C 1	
240		FS-243		C 1	
241		FS-244		C 1	
242		FS-245		C 1	
243		FS-246		C 1	
244		FS-247		C 1	
245		FS-248		C 1	
246		FS-249		C 1	
247		FS-250		C 1	
248		FS-251		C 1	
249		FS-252		C 1	
250		FS-253		C 1	
251		FS-254		C 1	
252		FS-255		C 1	
253		FS-256		C 1	
254		FS-257		C 1	
255		FS-258		C 1	
256		FS-259		C 1	
257		FS-260		C 1	
258		FS-261		C 1	
259		FS-262		C 1	
260		FS-263		C 1	
261		FS-264		C 1	
262		FS-265		C 1	
263		FS-266		C 1	
264		FS-267		C 1	
265		FS-268		C 1	
266		FS-269		C 1	
267		FS-270		C 1	
268		FS-271		C 1	
269		FS-272		C 1	
270		FS-273		C 1	
271		FS-274		C 1	
272		FS-275		C 1	
273		FS-276		C 1	
274		FS-277		C 1	
275		FS-278		C 1	
276		FS-279		C 1	
277		FS-280		C 1	
278		FS-281		C 1	
279		FS-282		C 1	
280		FS-283		C 1	
281		FS-284		C 1	
282		FS-285		C 1	
283		FS-286		C 1	
284		FS-287		C 1	
285		FS-288		C 1	
286		FS-289		C 1	
287		FS-290		C 1	
288		FS-291		C 1	
289		FS-292		C 1	
290		FS-293		C 1	
291		FS-294		C 1	
292		FS-295		C 1	
293		FS-296		C 1	
294		FS-297		C 1	
295		FS-298		C 1	
296		FS-299		C 1	
297		FS-300		C 1	
298		FS-301		C 1	
299		FS-302		C 1	
300		FS-303		C 1	
301		FS-304		C 1	
302		FS-305		C 1	
303		FS-306		C 1	
304		FS-307		C 1	
305		FS-308		C 1	
306		FS-309		C 1	
307		FS-310		C 1	
308		FS-311		C 1	
309		FS-312		C 1	
310		FS-313		C 1	
311		FS-314		C 1	
312		FS-315		C 1	
313		FS-316		C 1	
314		FS-317		C 1	
315		FS-318		C 1	
316		FS-319		C 1	
317		FS-320		C 1	
318		FS-321		C 1	
319		FS-322		C 1	
320		FS-323		C 1	
321		FS-324		C 1	
322		FS-325		C 1	
323		FS-326		C 1	
324		FS-327		C 1	
325		FS-328		C 1	
326		FS-329		C 1	
327		FS-330		C 1	
328					

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

August 26, 2024

NICHOLAS POOLE

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 08/23/24 8:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 (H245142-01)

BTX 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	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2024	ND	400	100	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 6 (H245142-02)

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	08/23/2024	ND	2.23	112	2.00	6.88		
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/23/2024	ND	400	100	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 8 (H245142-03)

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	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2024	ND	400	100	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 9 (H245142-04)

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	08/23/2024	ND	2.23	112	2.00	6.88		
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/23/2024	ND	400	100	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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 11 (H245142-05)

BTX 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	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2024	ND	416	104	400	7.41	

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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 12 (H245142-06)

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	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/23/2024	ND	416	104	400	7.41	

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	08/23/2024	ND	220	110	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	215	107	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Conaco Phillips Project Manager: Nicholas Poole Address: City: State: Zip: Phone #: 8602878 Fax #: Project #: 2124-MD-031054 Project Owner: Project Name: Pine Springs 2 State SMD #001 Project Location: Eddy Co, NM Sample Name: Andrew Garcia FOR LAB USE ONLY				BILL TO P.O. #: Company: Tetra Tech Attn: Nicholas Poole Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST							
Lab I.D. H245142		Sample I.D.		(G)RAB OR (C)OMP. C 1		# CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV		SAMPLING			
FS-5 FS-6 FS-8 FS-9 FS-11 FS-12		C 1 1 1 1 1 1		X 1 1 1 1 1		X 1 1 1 1 1		8/22 900 930 1000 1030 1100 1130		X X X X X X		TPEX BTEX Chlorides			
PLEASE NOTE: Liability and Damages, Contractor's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.															
Relinquished By: Andrew Garcia Date: 8/22/24 Time: 0837				Received By: Spectroscopy Date: 8/22/24 Time:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		Remarks: Nicholas Poole @ Tetra Tech.com Andrew Garcia @ Tetra Tech.com					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: -3.7 Corrected Temp. °C: -3.3				Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: (Signature) Turnaround Time: #146 Standard <input type="checkbox"/> Rush <input type="checkbox"/> 24 HR TAT <input type="checkbox"/>			
Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				Observed Temp. °C:				Corrected Temp. °C:							



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

August 28, 2024

NICHOLAS POOLE

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 08/27/24 16:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 46 (H245221-01)

BTX 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	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/28/2024	ND	448	112	400	0.00		

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	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 47 (H245221-02)

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	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2024	ND	448	112	400	0.00	

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	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/27/2024
 Reported: 08/28/2024
 Project Name: PINE SPRINGS 2 STATE SWD #001
 Project Number: 212C - MD - 02878
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 08/27/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 48 (H245221-03)

BTX 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	08/28/2024	ND	2.16	108	2.00	7.45		
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53		
Total BTX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

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	08/28/2024	ND	448	112	400	0.00		

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	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Conoco Phillips</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																																					
Project Manager: <u>Nicholas Poole</u>		Company: <u>Tetra Tech</u>																																																			
Address:		Attn: <u>Nicholas Poole</u>																																																			
City:		Address:																																																			
State:		City:																																																			
Zip:		State:																																																			
Phone #:		Fax #:																																																			
Project #: <u>212C-MD-02878</u>		Project Owner:																																																			
Project Name: <u>Pine Springs 2 State SWD #001</u>		City:																																																			
Project Location: <u>Eddy Co, NM</u>		State:																																																			
Sample Name: <u>Andrew Garcia</u>		Phone #:																																																			
Fax #:		Fax #:																																																			
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																																															
Lab I.D. <u>1245221</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																									
FS-46		C		↓		X		↓		X		↓		X		↓		X		↓		X		↓		X		↓																									
FS-47		C		↓		X		↓		X		↓		X		↓		X		↓		X		↓		X		↓																									
FS-48		C		↓		X		↓		X		↓		X		↓		X		↓		X		↓		X		↓																									
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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <u>Andrew Garcia</u>		Date: <u>27 Aug 24</u>		Received By: <u>Nicholas Poole</u>		Date: <u>27 Aug 24</u>		Time: <u>10:00</u>		Time: <u>12:00</u>																																									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>8.4°C</u>		Corrected Temp. °C <u>-0.2°C</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>NP</u>		Turnaround Time: <u>Standard</u>		Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Bacteria Intact <input type="checkbox"/> Observed Temp. °C																																									
Remarks: <u>Andrew Garcia @ tetra-tech.com</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		All Results are emailed. Please provide Email address:		Thermometer ID #140		Correction Factor -0.5°C		24 HR TAT																																									

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



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

August 28, 2024

NICHOLAS POOLE

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 08/27/24 16:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 15 (H245222-01)

BTX 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	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/28/2024	ND	448	112	400	0.00		

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	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



1 of 1

Page 4 of 4



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

August 26, 2024

NICHOLAS POOLE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: R360 RED BLUFF

Enclosed are the results of analyses for samples received by the laboratory on 08/23/24 8:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2024
 Reported: 08/26/2024
 Project Name: R360 RED BLUFF
 Project Number: 212C - MD - 02878
 Project Location: COP - ORLA, TX

Sampling Date: 08/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BACKFILL COMPOSITE (H245141-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTEX	<0.275	0.275	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/23/2024	ND	400	100	400	7.69		

TPH TX1005		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/23/2024	ND	227	113	200	3.24	
DRO >C12-C28	<25.0	25.0	08/23/2024	ND	205	103	200	6.54	
DRO >C28-C35	<25.0	25.0	08/23/2024	ND					
Total TPH C6-C35*	<25.0	25.0	08/23/2024	ND	438	110	400	6.27	

Surrogate: 1-Chlorooctane 68.1 % 48.6-153

Surrogate: 1-Chlorooctadecane 77.3 % 41.9-170

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

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

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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.

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

QUESTIONS

Action 387899

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387899
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Reclamation Report 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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure 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.

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QUESTIONS, Page 2

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	387899
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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@tetrattech.com Date: 09/27/2024
--	--

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QUESTIONS, Page 3

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	387899
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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 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.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	10700
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	201
GRO+DRO	(EPA SW-846 Method 8015M)	150
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	05/15/2024
On what date will (or did) the 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	7520
What is the estimated volume (in cubic yards) that will be reclaimed	724
What is the estimated surface area (in square feet) that will be remediated	7520
What is the estimated volume (in cubic yards) that will be remediated	724

These estimated dates and measurements are recognized to be the best guess or calculation at the 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.

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QUESTIONS, Page 4

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	387899
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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@tetrattech.com Date: 09/27/2024
--	--

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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QUESTIONS, Page 5

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	387899
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387899
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	377565
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
What was the (estimated) number of samples that were to be gathered	56
What was the sampling surface area in square feet	22194

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	20620
What was the total volume (cubic yards) remediated	2180
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	20620
What was the total volume (in cubic yards) reclaimed	2180
Summarize any additional remediation activities not included by answers (above)	Following excavation, confirmation floor and sidewall samples were collected and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD-approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. A total of forty-eight (48) confirmation floor sample locations and eleven (11) confirmation sidewall sample locations were used during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#.

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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 09/27/2024
--	--

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QUESTIONS, Page 7

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	387899
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	20620
What was the total volume of replacement material (in cubic yards) for this site	2180
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	09/27/2029
Summarize any additional reclamation activities not included by answers (above)	Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. One (1) representative 5-point composite sample was collected from the backfill material used for the backfill of the project site.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 09/27/2024

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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 8

Action 387899

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387899
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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
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Santa Fe, NM 87505

CONDITIONS

Action 387899

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	387899
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	9/30/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/30/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	9/30/2024