



September 27, 2024

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

**Re: Remediation 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 NAB1817955890
2RP-4832**

Sir or Madam:

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

BACKGROUND

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

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

The Pine Springs 2 State SWD #001 Release (NAB1817955890) footprint coincides with an additional release incident associated with the Pine Springs 2 State SWD #001 (NAB1735335003). A separate Release Characterization and Work Plan report will be submitted for the coincident release. As discussed, 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 Stand Land Office CRD and Tetra Tech, and out of an abundance of caution, ConocoPhillips obtained a Right of Entry for the Site.

COPC representatives contacted the CRD to obtain the permit. On 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,

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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, has 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 o 100 mg/kg. The proposed excavation depths for T1, T2, T5, T10, and T11 are not adequate. The excavation depths will need to meet the closure criteria. Bottom hole confirmation samples representative of 2,500 square feet is not approvable. 2RP-4523 closed. Refer to incident #NAB1735335003 in all future communication. Submit a complete report though the OCD Permitting website by 7/19/2023.”

Two separate 90-day extension requests have since been submitted and approved by the NMOCD. The first, requested on July 27, 2023, was due to the NMSLO recent permitting requirements for water/soil boring exploration permits. The extension request was approved by Brittany Hall of the NMOCD via email on the on July 27, 2023. 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 THFTO-240115-C-1410 on January 15, 2024. As the release impact is fully delineated, and the release footprint is in areas immediately under or around production equipment, the report contained language regarding leaving impacted soils in place. On February 2, 2024, Ashley Maxwell of the NMOCD rejected the Initial Work Plan. The reason for the rejection is as follows:

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

REVISED REMEDIATION WORK PLAN

Based on the NMOCD rejection, a revised Work Plan was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on February 23, 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.”*

Regulatory correspondence is included in Appendix B.

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.

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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 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 E.

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. The backfill meets reclamation requirements. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

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

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

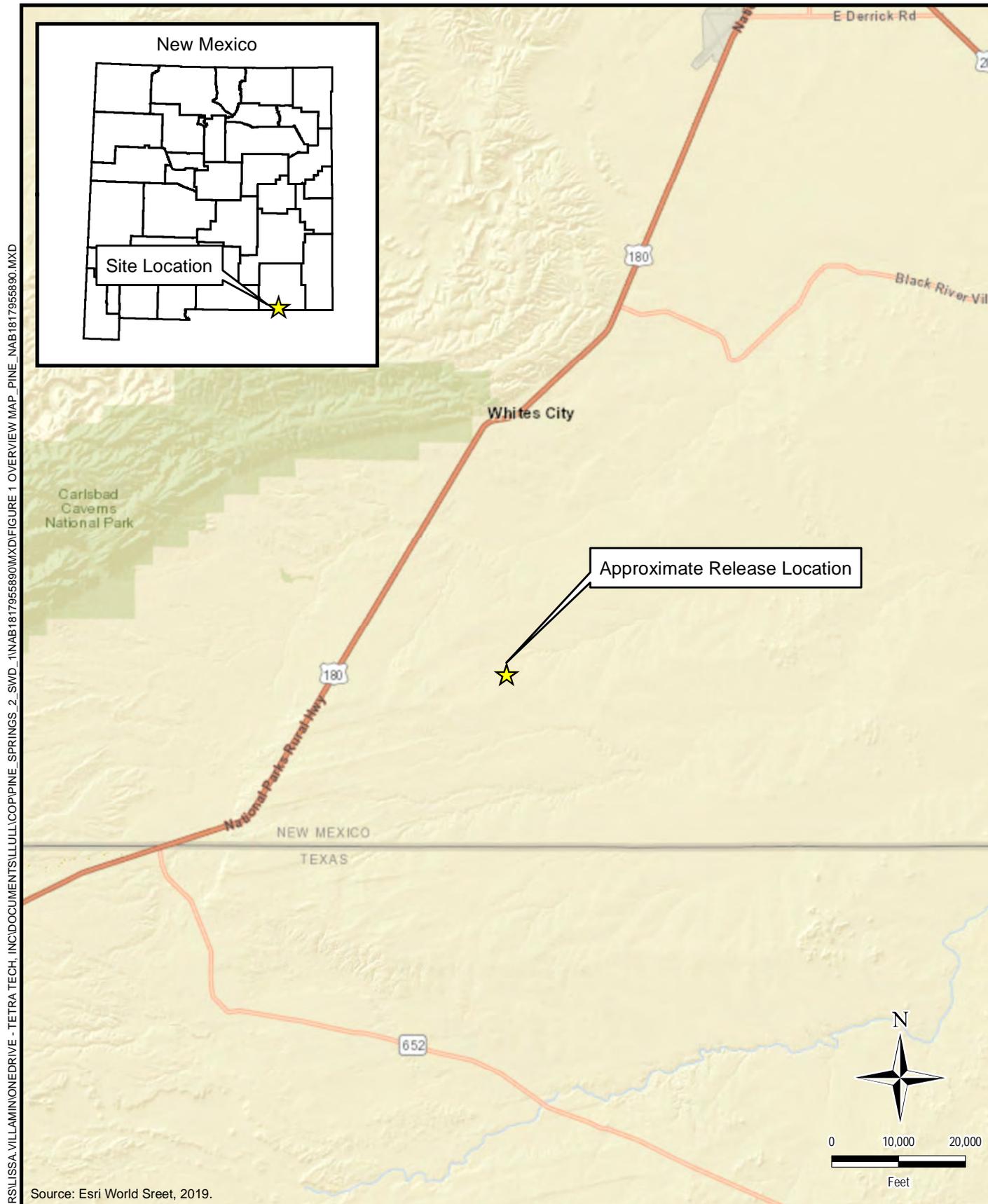
Tables:

- 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)

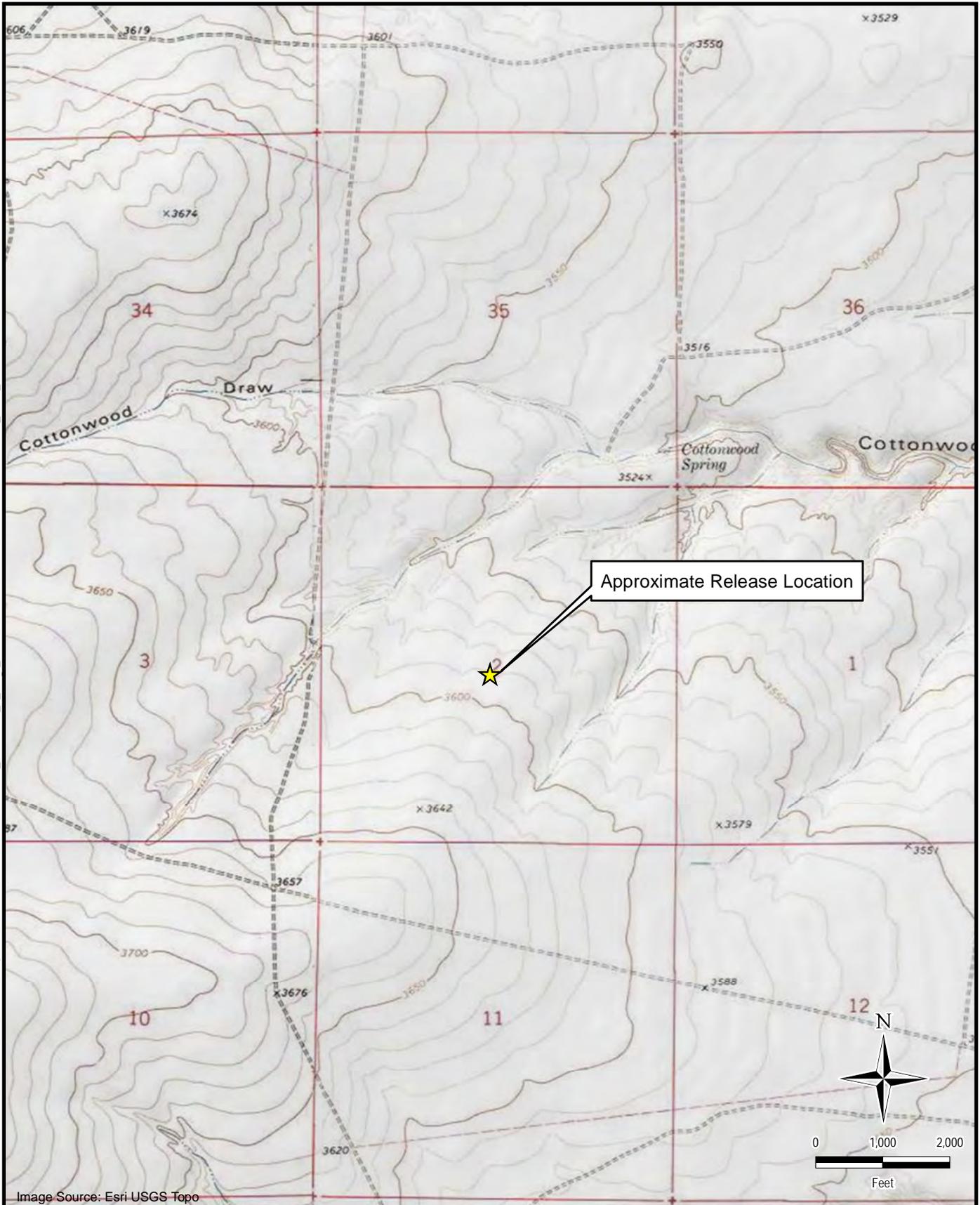
FIGURES



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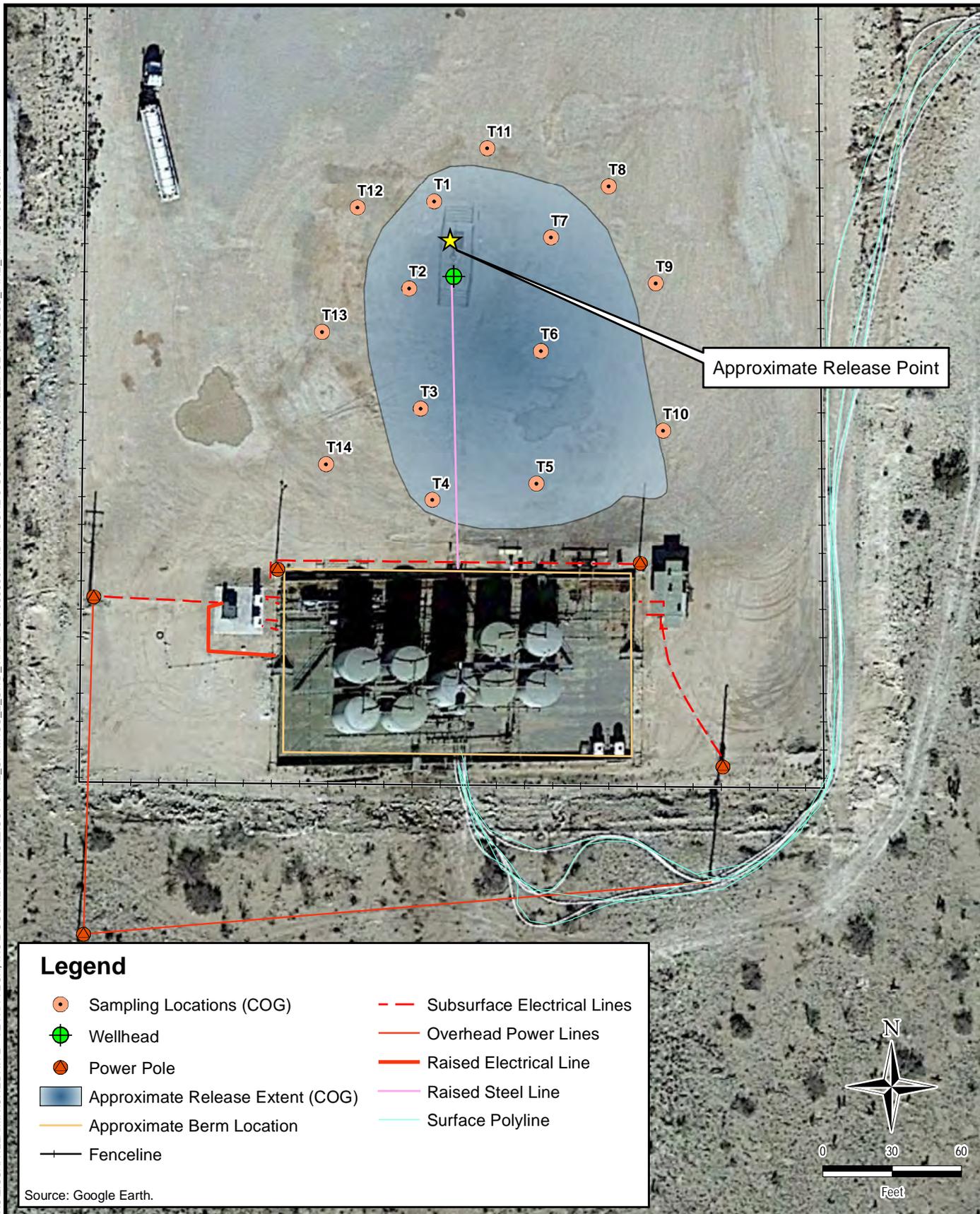
 <p>TETRA TECH</p> <p>www.tetratech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NAB1817955890 (32.071359°, -104.366918°) EDDY COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02878</p> <p>DATE: NOVEMBER 16, 2023</p> <p>DESIGNED BY: LMV</p>
	<p>PINE SPRINGS 2 STATE SWD #001 RELEASE OVERVIEW MAP</p>	<p>Figure No. 1</p>

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 <p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NAB1817955890 (32.071359°, -104.366918°) EDDY COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02878</p>
	<p>PINE SPRINGS 2 STATE SWD #001 RELEASE TOPOGRAPHIC MAP</p>	<p>DATE: NOVEMBER 16, 2023</p> <p>DESIGNED BY: LMV</p>
		<p>Figure No. 2</p>

DOCUMENT PATH: C:\USERS\LISSA.VILLAMONEDRIVE - TETRA TECH, INC\DOCUMENTS\ILLULLI\COP\PINE_SPRINGS_2_SWD_1\NAB1817955890\MXD\FIGURE 3 COG APPROX RELEASE & ASSESS_PINE_NAB1817955890.MXD



Legend

- Sampling Locations (COG)
- Wellhead
- ◆ Power Pole
- Approximate Release Extent (COG)
- Subsurface Electrical Lines
- Overhead Power Lines
- Raised Electrical Line
- Raised Steel Line
- Approximate Berm Location
- Surface Polyline
- Fenceline

Source: Google Earth.



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 Fax: (432) 682-3946

CONOCOPHILLIPS

NAB1817955890
 (32.071359°, -104.366918°)
 EDDY COUNTY, NEW MEXICO

**PINE SPRINGS 2 STATE SWD #001 RELEASE
 COG APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT**

PROJECT NO.: 212C-MD-02878

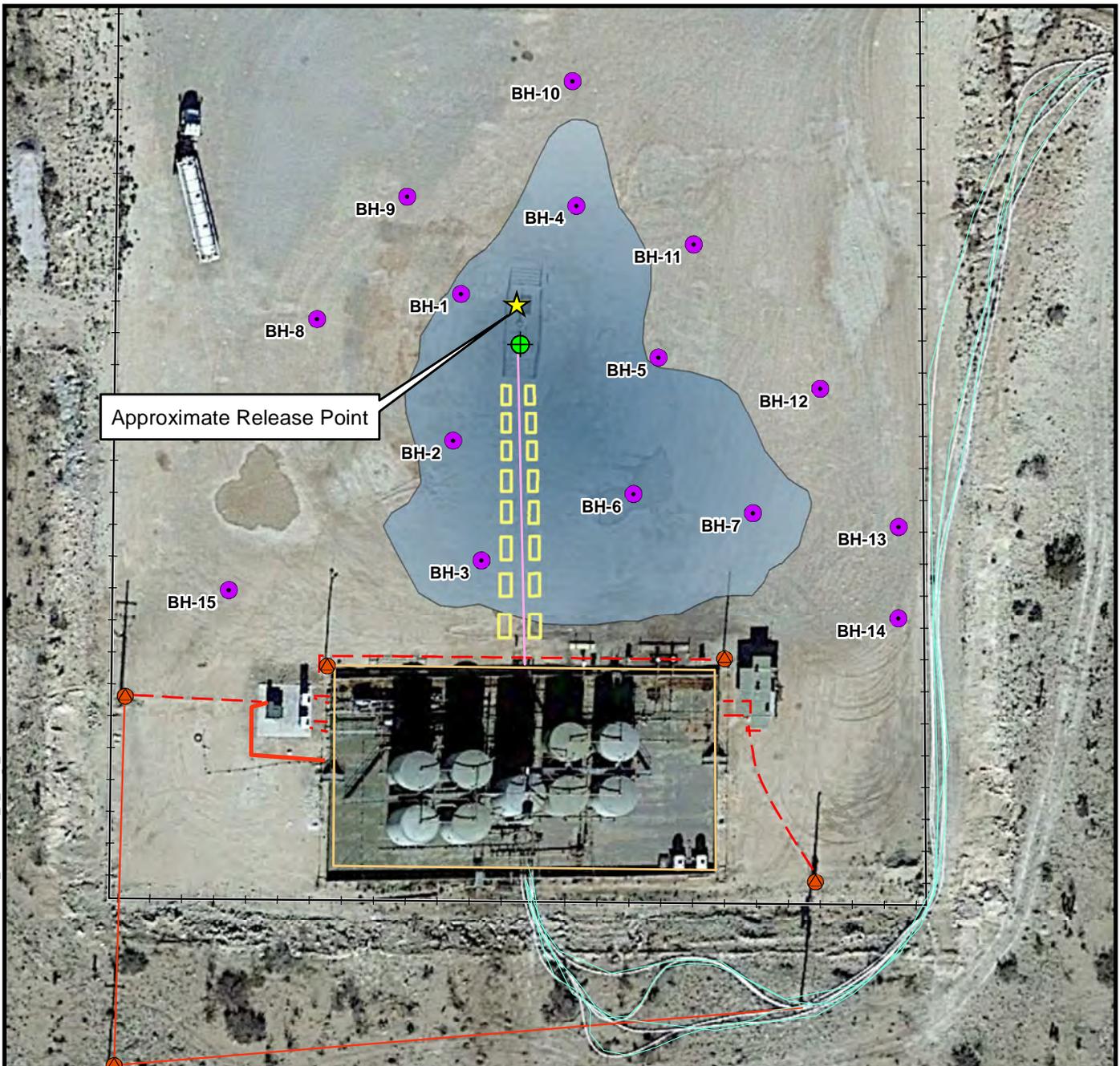
DATE: NOVEMBER 20, 2023

DESIGNED BY: LMV

Figure No.

3

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Legend	
	Borehole Locations (Tetra Tech)
	Wellhead
	Power Pole
	Approximate Release Extent (Tetra Tech)
	Cement Blocks
	Approximate Berm Location
	Fenceline
	Subsurface Electrical Lines
	Overhead Power Lines
	Raised Electrical Line
	Raised Steel Line
	Surface Polyline

Source: Google Earth.

Tt TETRA TECH

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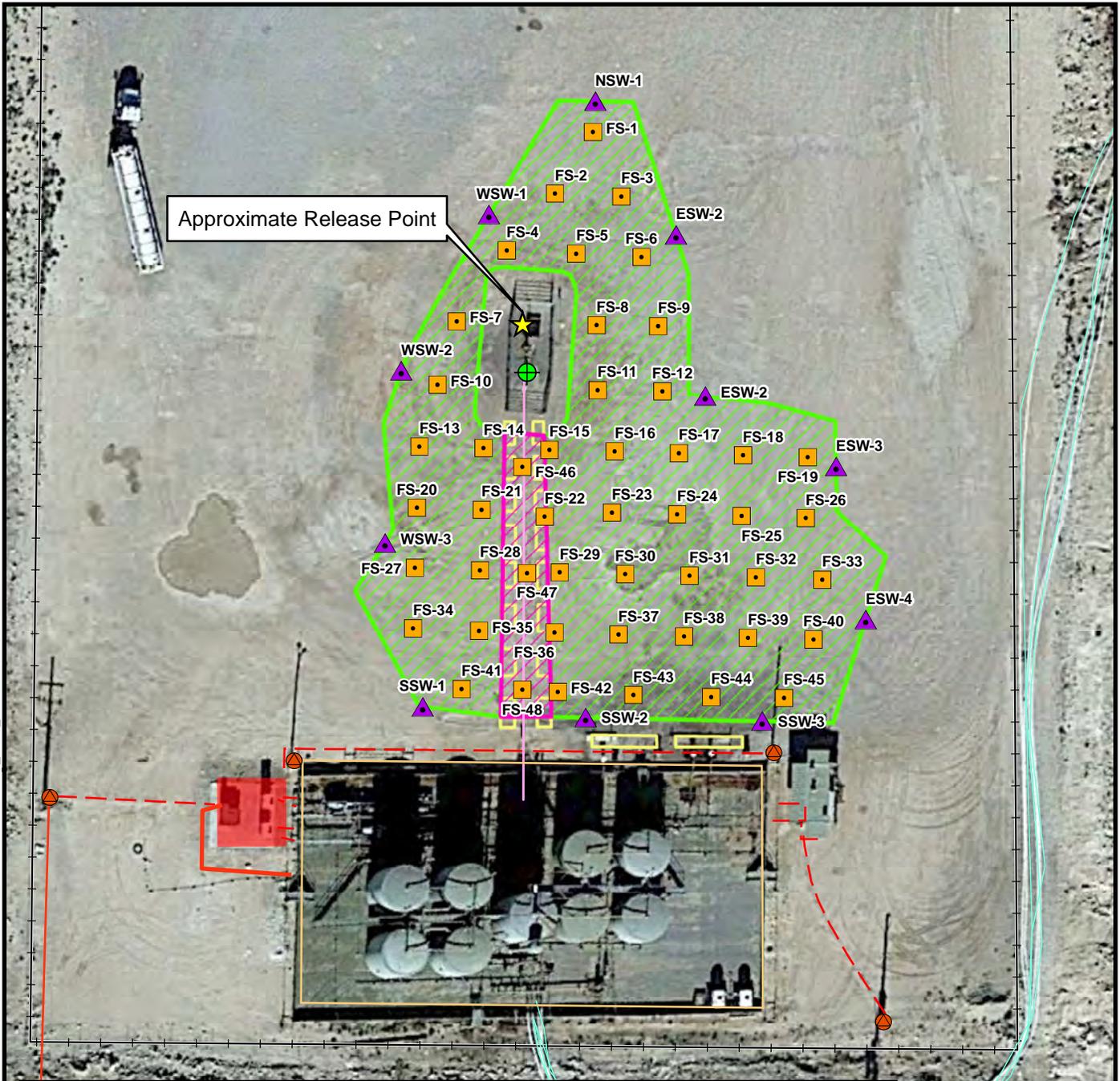
901 West Wall Street, Suite 100
Midland, Texas 79701
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Fax: (432) 682-3946

CONOCOPHILLIPS

NAB1817955890
(32.071359°, -104.366918°)
EDDY COUNTY, NEW MEXICO

PINE SPRINGS 2 STATE SWD #001 RELEASE
TETRA TECH APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-02878
DATE:	DECEMBER 08, 2023
DESIGNED BY:	LMV
Figure No.	4



DOCUMENT PATH: Y:\CONOCOPHILLIPS\PINE_SPRINGS_2_SWD_1\NAB1817955890\MXD\FIGURE 5 REMEDIATION & CONFIRM. PINE_NAB1817955890.MXD

Legend					
	Floor Confirmation Sample Location		Excavated Area - 3' BGS		Subsurface Electrical Lines
	Sidewall Confirmation Sample Location		Scraped Area - 6" BGS		Overhead Power Line
	Wellhead		Cement Block		Raised Electrical Line
	Power Pole		Electrical Panel		Raised Steel Line
			Approximate Berm Location		Surface Polyline
			Fenceline		

BGS: Below Ground Surface. Source: Google Earth.



<p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NAB1817955890 (32.071359°, -104.366918°) EDDY COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02878</p>
	<p>PINE SPRINGS 2 STATE SWD #001 RELEASE REMEDATION EXTENT AND CONFIRMATION SAMPLING</p>	<p>DATE: AUGUST 29, 2024</p> <p>DESIGNED BY: LMV</p>
		<p>Figure No. 5</p>

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2018 SOIL ASSESSMENT - NAB1817955890/2RP-4832
CONOCOPHILLIPS
PINE SPRINGS 2 STATE SWD #1 RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth ft. bgs	Chloride ¹			BTEX ²										TPH ³								
			Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		Total BTEX		GRO		DRO		MRO		Total TPH	
			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	1,990	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		1	1,260	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		2	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5	959	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6	626	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T2	9/17/2018	0	1,000	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		1	3,680	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		2	874	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	765	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	415	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6	391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		7	986	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8	286	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T3	9/17/2018	0	2,860	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	15.2	<15.0	<15.0	15.2	<15.0	15.2	
		1	3,620	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		2	75.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	182	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	30.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T4	9/17/2018	0	223	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		1	1,020	<0.00200	0.00221	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00221	<14.9	<14.9	<14.9	<14.9	<14.9	<14.9	<14.9		
		2	197	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	<4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	<4.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T5	9/17/2018	0	10,700	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	150	51.0	<14.9	201	29.3	<14.9	29.3	
		1	5,920	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	<14.9	<14.9	
		2	3,710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	526	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	906	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T6	9/17/2018	0	4,330	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	33.5	<15.0	<15.0	33.5	<15.0	33.5	<15.0	
		1	560	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		2	87.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T7	9/17/2018	0	141	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	132	33.1	<15.0	265	<15.0	33.1	<15.0	
		1	203	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	
		2	385	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4	105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5	68.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		7	145	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T8	9/17/2018	0	513	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
T9	9/17/2018	0	502	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	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	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	
T13	9/17/2018	0	596	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
T14	9/17/2018	0	385	NA	NA	NA	NA	NA	NA	NA	NA	NA	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 RRAs and Reclamation Requirements.
Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT - NAB1817955890/2RP-4832
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		
			mg/kg	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		
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		<10.0		11.2
		2-3'	-	-	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<10.0		-
		5-6'	-	400	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<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		<10.0		-
		2-3'	-	-	1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<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		<10.0		-
		2-3'	-	-	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<10.0		-
		2-3'	-	-	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<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		<10.0		-
		2-3'	-	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<10.0		-
		2-3'	-	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<10.0		-
		5-6'	-	400	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<10.0		-
		2-3'	-	-	1120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<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		<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		<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		<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		<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		<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		<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		<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		<10.0		-

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
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 (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
FS-1	8/21/2024	3	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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		<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	mg/kg	Q	mg/kg	Q	mg/kg	Q	
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
				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	(GRO+DRO+EXT DRO)
BACKFILL - COMPOSITE	8/22/2024	128		<0.025		<0.050		<0.050		<0.150		<0.275		<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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 316834

QUESTIONS

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

QUESTIONS

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

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

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

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QUESTIONS, Page 2

Action 316834

QUESTIONS (continued)

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

QUESTIONS

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

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@tetratech.com Date: 02/22/2024
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QUESTIONS, Page 3

Action 316834

QUESTIONS (continued)

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

QUESTIONS

Site Characterization

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

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

Remediation Plan

Please answer all the questions 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	05/20/2024
On what date will (or was) the remediation complete(d)	05/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	22250
What is the estimated volume (in cubic yards) that will be reclaimed	2472
What is the estimated surface area (in square feet) that will be remediated	25000
What is the estimated volume (in cubic yards) that will be remediated	2472

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 316834

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 316834
	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 (AP) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 02/22/2024
--	---

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

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QUESTIONS, Page 5

Action 316834

QUESTIONS (continued)

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

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I
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QUESTIONS, Page 6

Action 316834

QUESTIONS (continued)

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

QUESTIONS

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

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

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CONDITIONS
 Action 316834

CONDITIONS

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

CONDITIONS

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

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State of New Mexico
Energy Minerals and Natural Resources

JUN 27 2018

Form C-141
Revised April 3, 2017

Oil Conservation Division DISTRICT IV ARTESIA O.C.D. Appropriate District Office in accordance with 19.15.29 NMAC.
1220 South St. Francis Dr.
Santa Fe, NM 87505

Release Notification and Corrective Action

NAB1817955890

OPERATOR Initial Report Final Report

Name of Company: COG Operating, LLC (OGRID #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: Well Head
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	2,500	South	2,500	West	Eddy

Latitude 32.071434 Longitude -104.3667831 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 25 bbl.	Volume Recovered 20 bbl.
Source of Release Hammer Union	Date and Hour of Occurrence June 25, 2018 2:12pm	Date and Hour of Discovery June 25, 2018 2:12pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NMOCD Crystal Weaver - NMOCD Ryan Mann - SLO	
By Whom? Sheldon Hitchcock	Date and Hour June 25, 2018 3:29pm	
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.*
The release was caused by the O-ring in the hammer union failing. The O-Ring has been replaced.

Describe Area Affected and Cleanup Action Taken.*
The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities

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: <i>DeAnn Grant</i>	OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant	Signed By: <i>Mike Bratcher</i> Approved by Environmental Specialist:	
Title: HSE Administrative Assistant	Approval Date: <i>6/27/18</i>	Expiration Date: <i>NIA</i>
E-mail Address: agrant@concho.com	Conditions of Approval: <i>See Attached</i>	Attached <input checked="" type="checkbox"/> <i>23P-4832</i>
Date: June 27, 2018	Phone: (432) 253-4513	

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

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

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

The responsible person shall complete 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 2 office in ARTESIA on or before 7/27/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

- **Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.**
- **Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.**
- **Nominal detection limits for field and laboratory analyses must be provided.**
- **Composite sampling is not generally allowed.**
- **Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted**

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

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

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

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

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

Jim Griswold

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

Bratcher, Mike, EMNRD

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

Mr. Bratcher/Mr. Mann,

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

Thank you,

DeAnn Grant

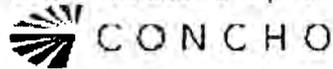
HSE Administrative Assistant

agrant@concho.com

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Further, any contract terms proposed or purportedly accepted in this email are not binding and are subject to management's final approval as memorialized in a separate written instrument, excluding electronic correspondence, executed by an authorized representative of COG Operating LLC or its affiliates.

Incident ID	NAB1735335003
District RP	2RP-4523
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?	23 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1735335003
District RP	2RP-4523
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: Ike Tavaréz Title: Program Manager, Remediation

Signature:  Date: 2/23/2024

email: ike.tavaréz@conocophillips.com Telephone: 432-685-2573

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1735335003
District RP	2RP-4523
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: Ike Tavarez Title: Program Manager, Remediation
 Signature:  Date: 2/23/2024
 email: ike.tavarez@conocophillips.com Telephone: 432-685-2573

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.nmsstatelands.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.

Ry D Owen
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
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

Poole, Nicholas

From: OCDOnline@state.nm.us
Sent: Monday, February 26, 2024 2:17 PM
To: Llull, Christian
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 316834

⚠ 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 approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1817955890, with the following conditions:

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

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

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

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

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 - NAB1817955890 (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 - NAB1817955890 (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 (**NAB1817955890**). 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 NMOCD on February 23, 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 NMOCD 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: OCDOOnline@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: OCDOOnline@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: OCDOOnline@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.**

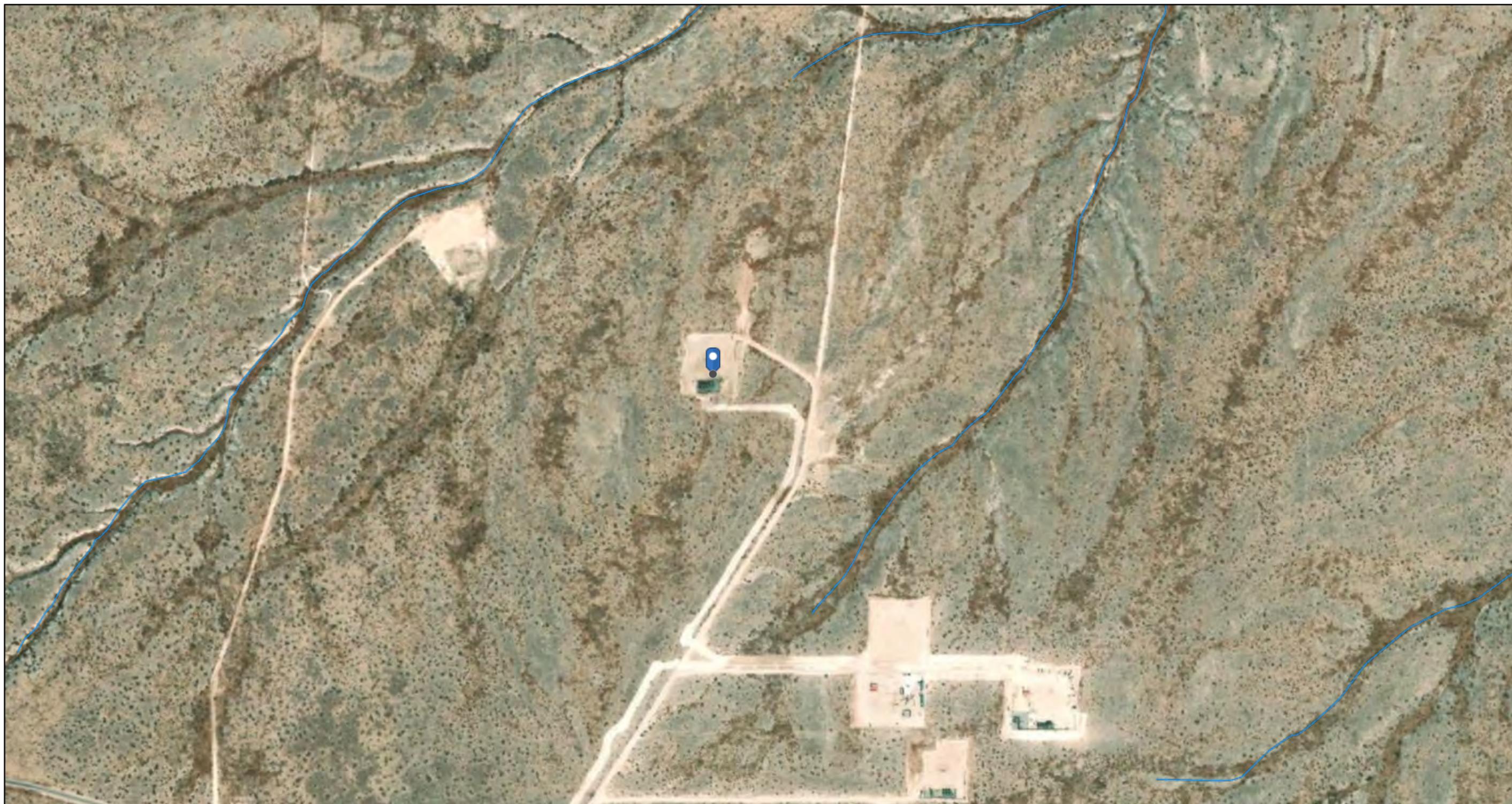
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

APPENDIX C

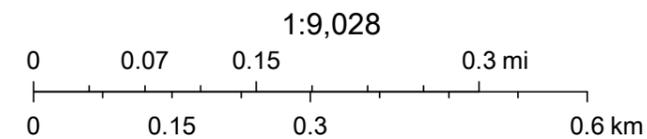
Site Characterization Data

OCD Waterbodies Map



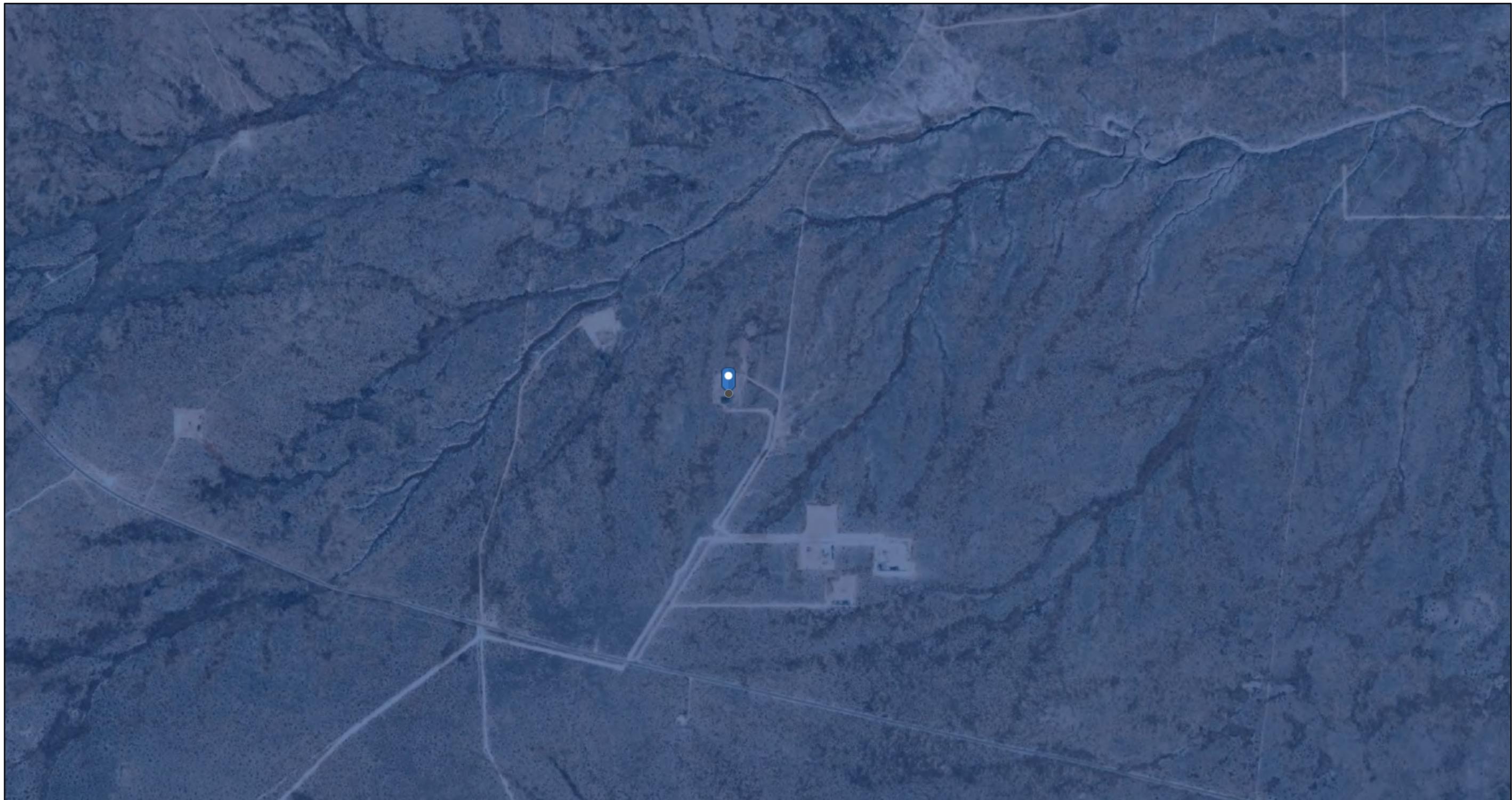
10/28/2022, 8:25:09 AM

— OSE Streams



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

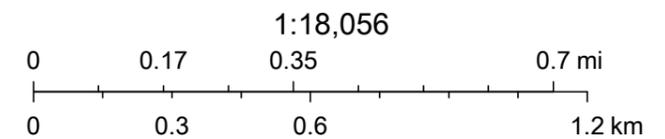
OCD Karst Map



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 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03321	C	ED	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.

APPENDIX D

Photographic Documentation



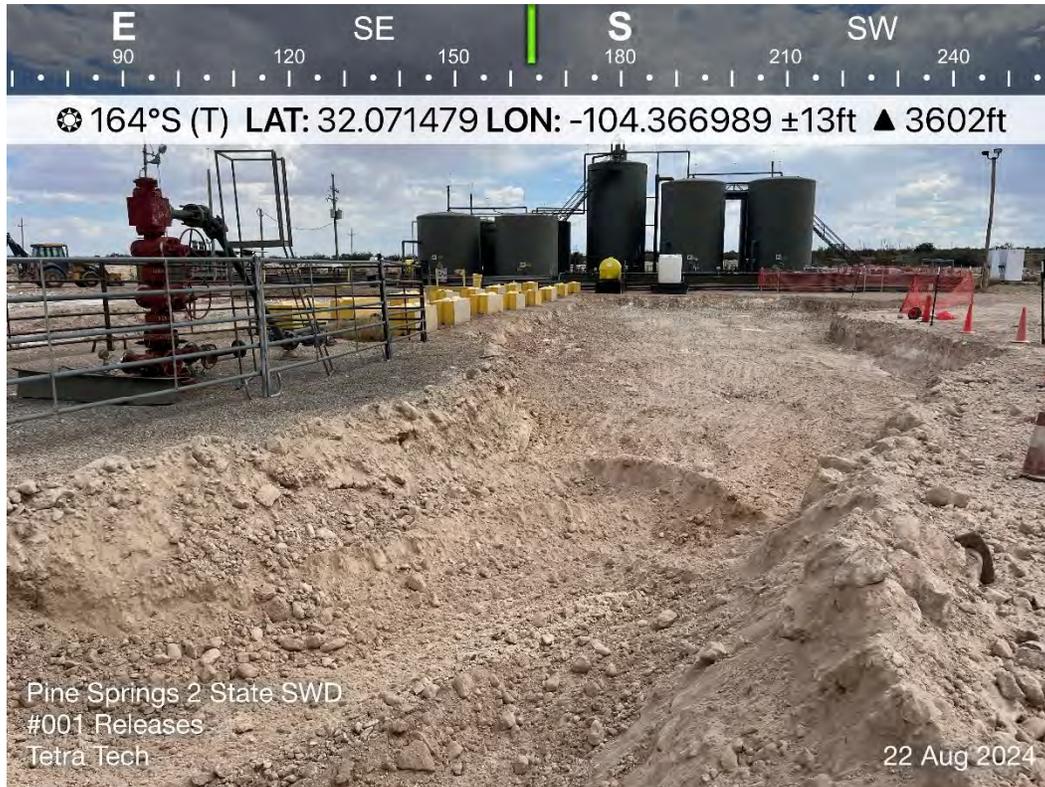
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View southwest. Initial excavation on western section of approved work plan.	1
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/13/2024



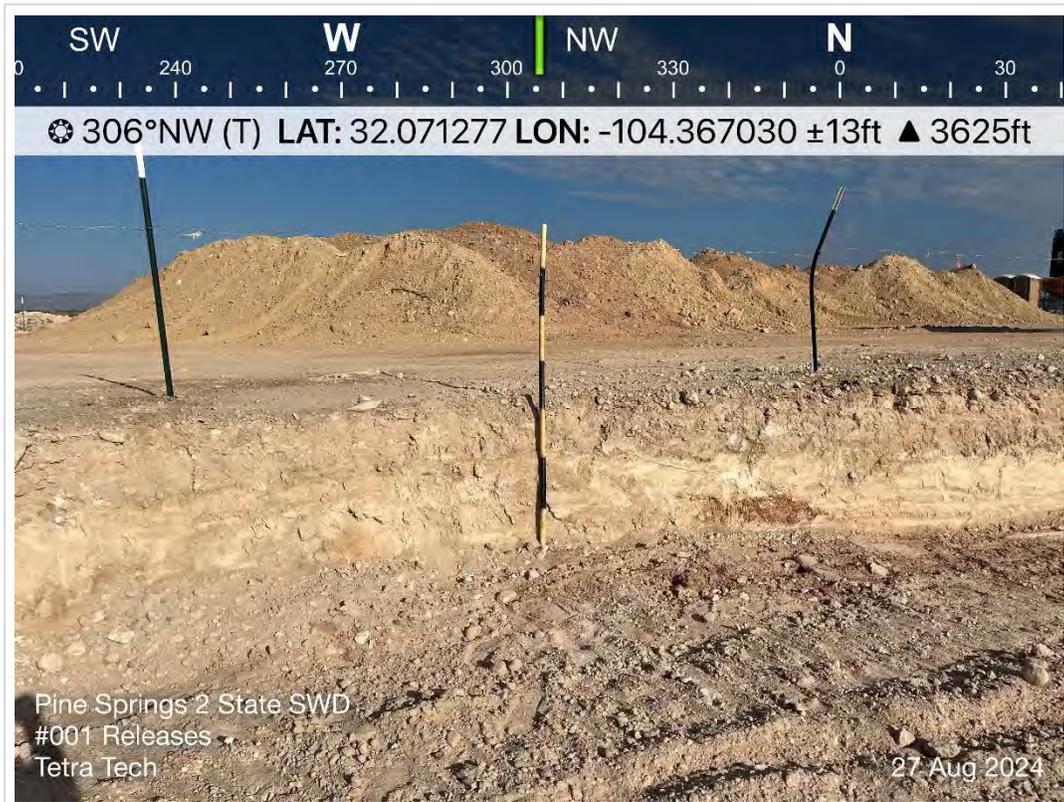
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Start of excavation at Site for approved work plan.	2
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/13/2024



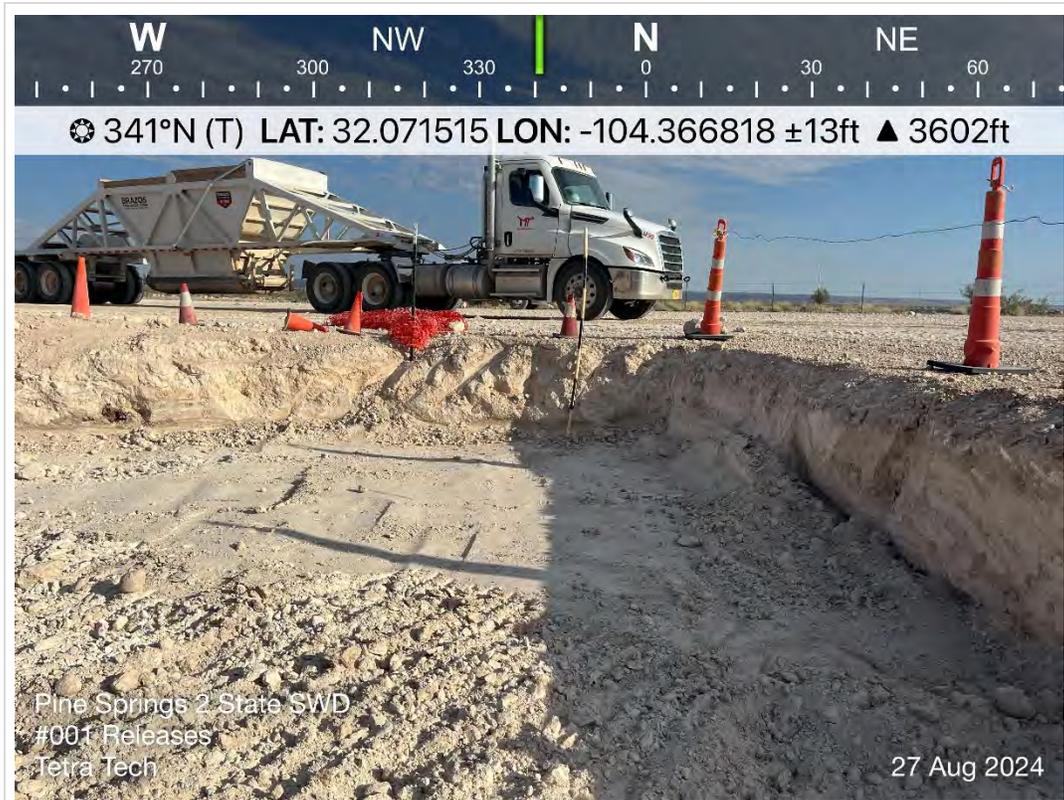
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View northeast. Eastern section of excavation progressing from approved work plan.	3
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/19/2024



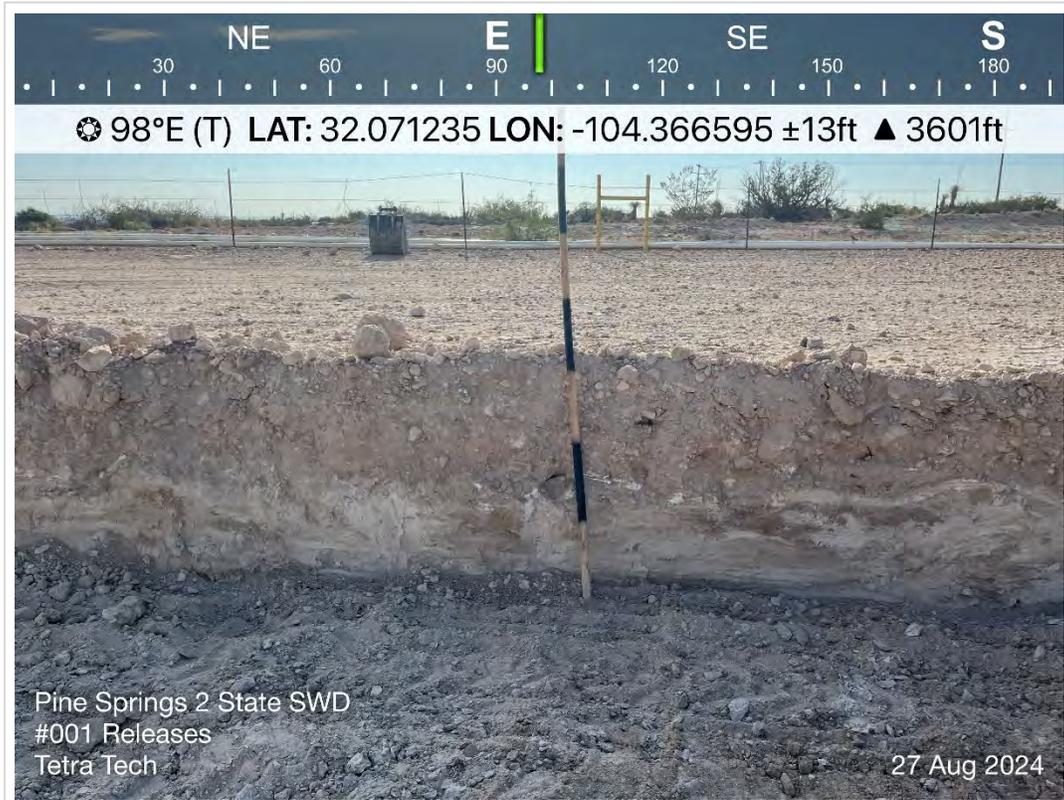
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south. Western section of excavation with wellhead visible on left-side of photo.	4
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/22/2024



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



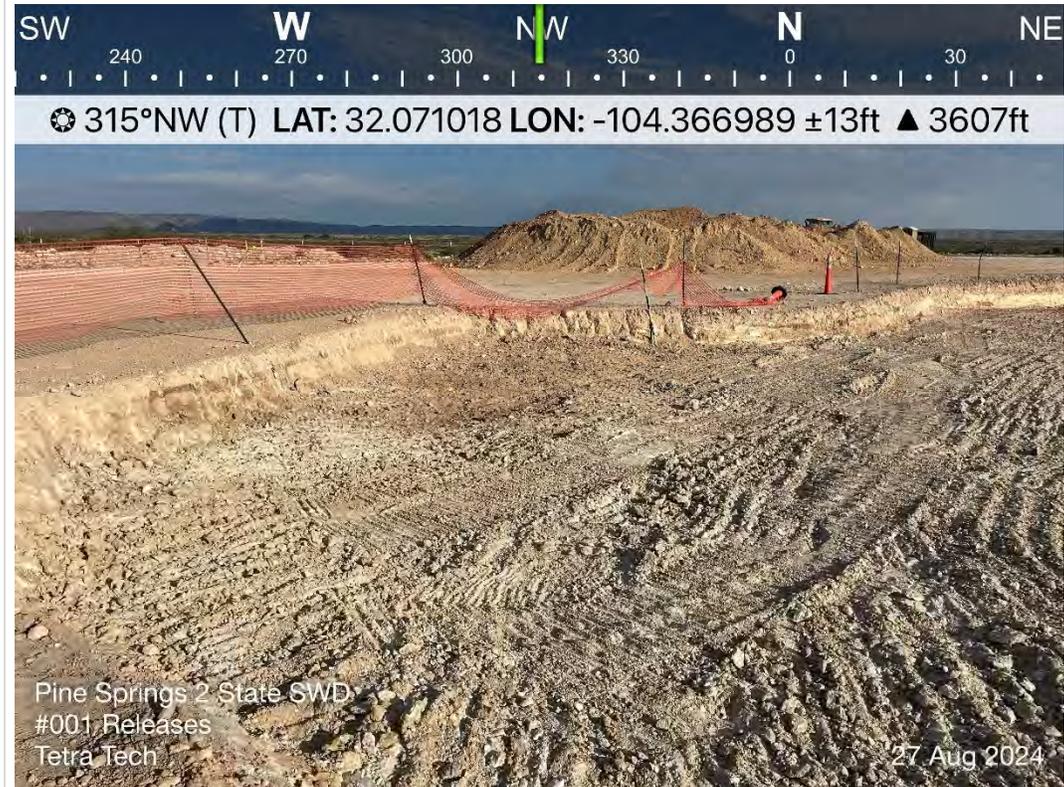
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View east. Eastern sidewall with measuring stick indicating depth of excavation.	7
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



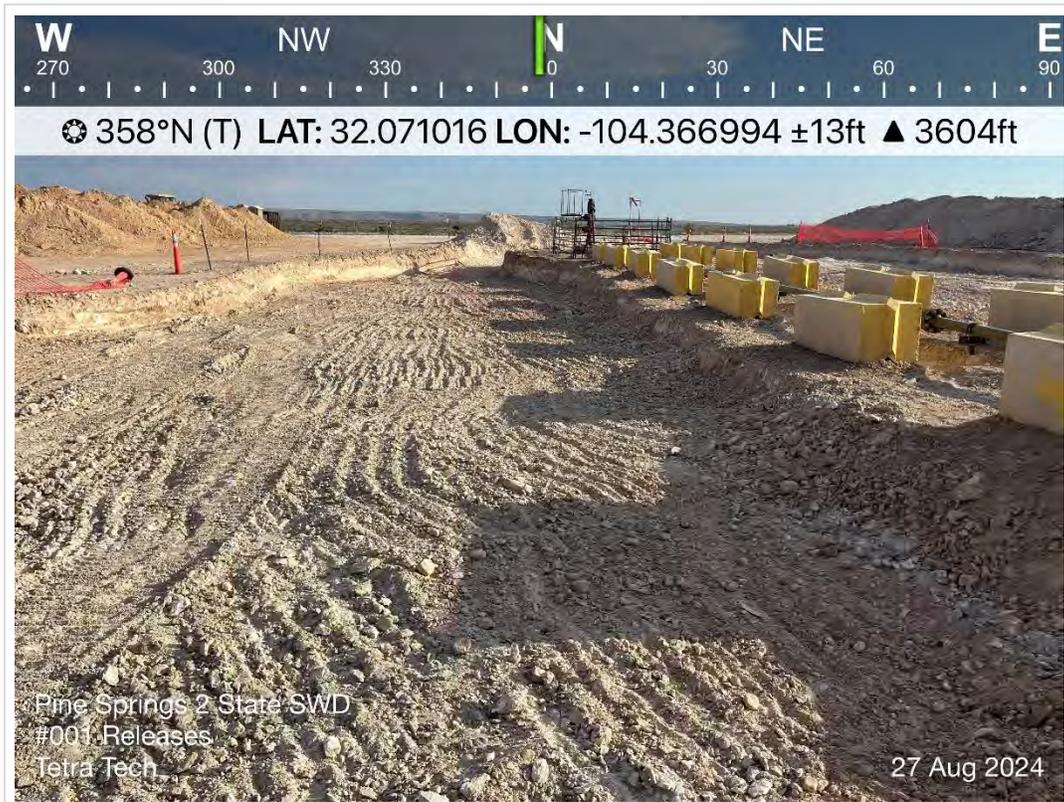
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View southeast. Photo taken from northern extent of excavation, view of eastern sidewall.	8
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



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



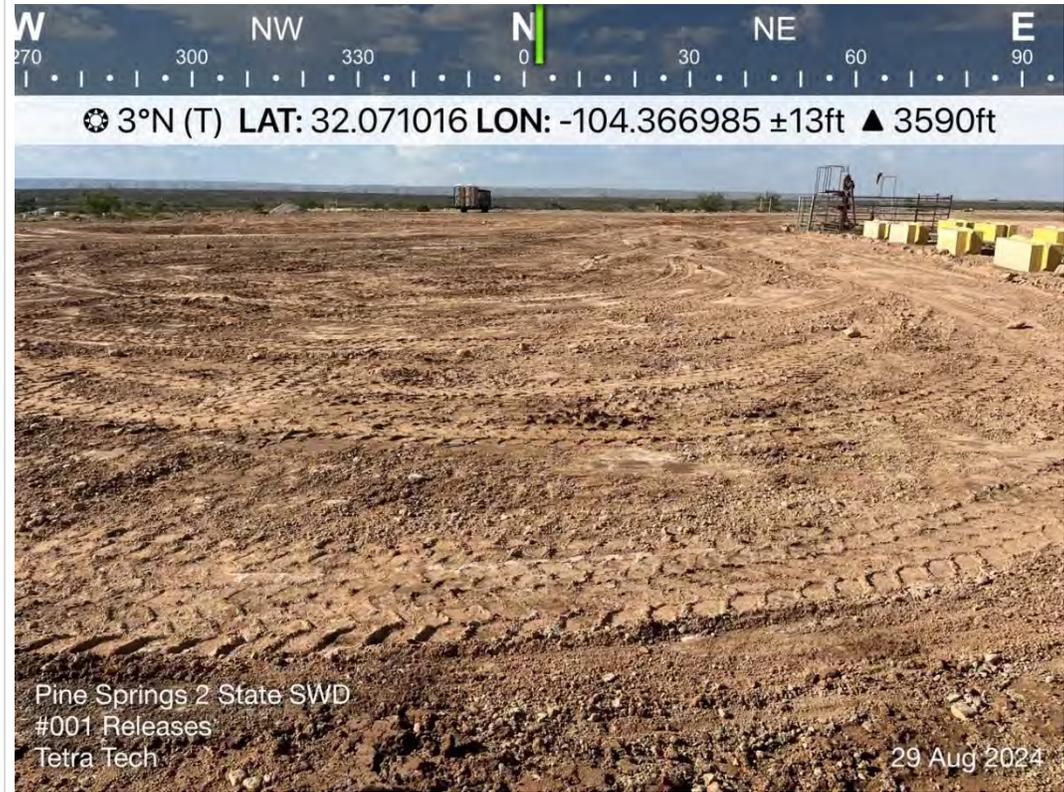
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Area of excavation west of critical facilities including well head and raised steel pipeline.	11
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



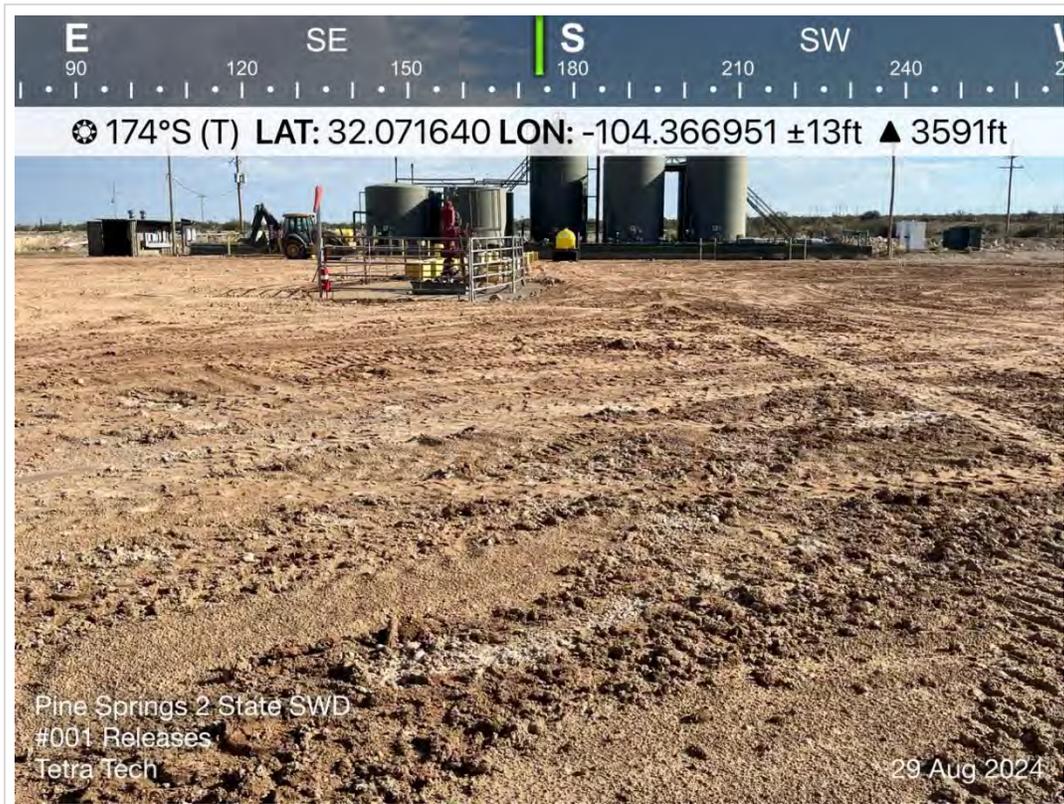
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View north. Raised steel line surrounded by large cement blocks. Area of 6 inch scrape.	12
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



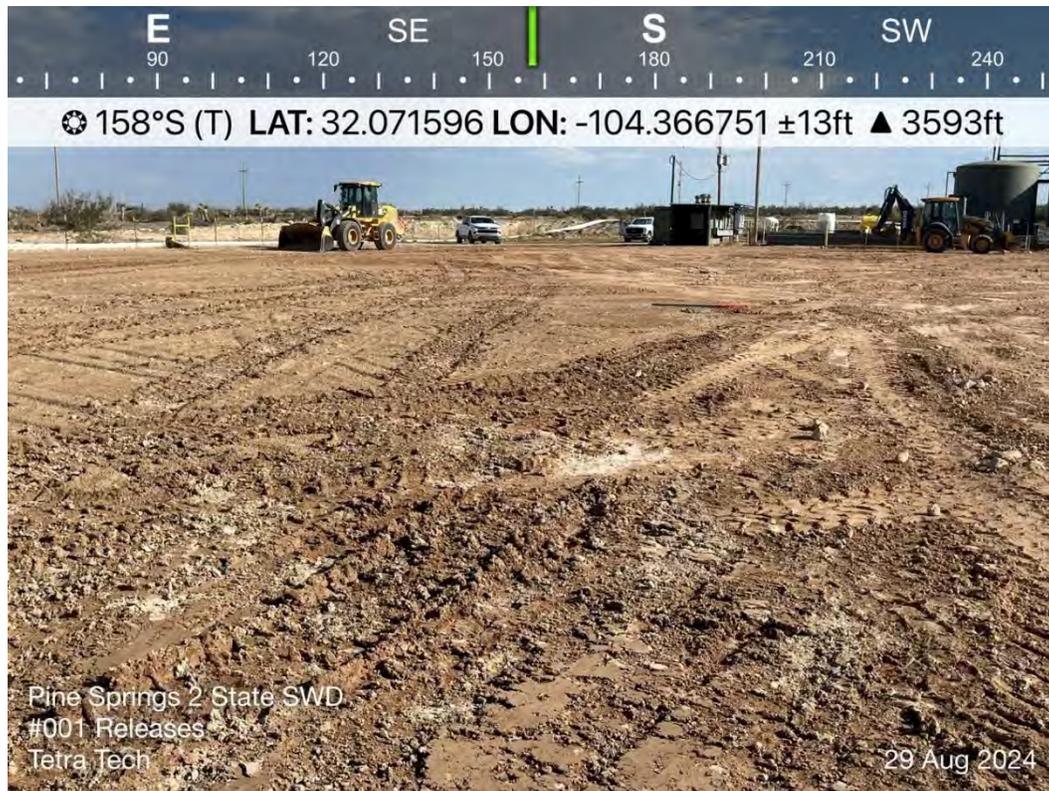
TETRA TECH, INC. PROJECT NO. 212C-MD-02878	DESCRIPTION	View south. Area of 6 inch scrape surrounding raised steel line.	13
	SITE NAME	Pine Springs 2 State SWD #001 Release	8/27/2024



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 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

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

Celey D. 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, SM4500CI-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

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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, SM4500CI-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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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: 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, SM4500CI-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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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: 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



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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: 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, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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, SM4500CI-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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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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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

Company Name: <u>Conoco-Phillips</u> Project Manager: <u>Nicholas Poole</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: <u>212C-MD-03105A</u> Project Owner: _____ Project Name: <u>Pine Springs 2 State SWD # 001</u> Project Location: <u>Eddy Co, NM</u> Sampler Name: <u>Andrew Garcia</u> FOR LAB USE ONLY		P.O. #: _____ Company: <u>Feta Tech</u> Attn: <u>Nicholas Poole</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>#241077</u> Sample I.D. _____		BILL TO	
(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____		ANALYSIS REQUEST	
Matrix: _____ Preservation: _____ Sampling: _____		DATE: <u>2024 6/15</u> TIME: _____	
NSW-1 ESW-1 ESA-2 WSW-1 WSW-2 WSW-3 SSW-1		X X X X X X X	
chloride BTEX TPH		X X X	
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Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: <u>8/15/24</u> Time: <u>1147</u>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>4.9°C</u> Corrected Temp. °C: <u>4.5°C</u> Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____ (Initials) Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Thermometer ID #140 Correction Factor -0.6°C Corrected Temp. °C: _____		Thermometer ID #140 Correction Factor -0.6°C Corrected Temp. °C: _____	

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



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".

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, SM4500CI-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	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 - 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, SM4500CI-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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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 - 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, SM4500CI-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, SM4500CI-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, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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, SM4500CI-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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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 - 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, SM4500CI-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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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, SM4500CI-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, SM4500CI-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, SM4500CI-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



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: 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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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 2

Company Name: Conoco Phillips Project Manager: Nicholas Poole Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: 212E-MD-03105A Project Owner: _____ Project Name: Pine Springs 2 State SMD #001 Project Location: Eddy Co, NM Sampler Name: Andrew Garcia		P.O. #: _____ Company: Tetra Tech Attn: Nicholas Poole Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ 17245809 1 2 3 4 5 6 7 8 9 10 FS-16 FS-17 FS-19 ESW-4 FS-24 FS-26 ESW-3 FS-25 ESW-2		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ MATRIX SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____ PRESERV _____ SAMPLING DATE: 8/20/2024 TIME: _____ 1130 1145 1200 1215 1230 1245 1300 1345 1400	
Relinquished By: Andrew Garcia Date: 10/03/24 Time: _____ Received By: APPOLES Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: Andrew Garcia @ Tetra Tech.com	
Delivered By: (Circle One) UPS - Bus - Other: _____ Observed Temp. °C: 19.1 Corrected Temp. °C: 1.36 Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: APD		Turnaround Time: Standard <input type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> 24 HR TAT <input type="checkbox"/> Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____	

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



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,

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



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 - 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



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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 - 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, SM4500CI-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, SM4500CI-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



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 - 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, SM4500CI-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	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 - 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



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 - 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, SM4500CI-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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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 - 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, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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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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 - 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, SM4500CI-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



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 - 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, SM4500CI-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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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 - 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, SM4500CI-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	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 - 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, SM4500CI-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	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 - 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, SM4500CI-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



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 - 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, SM4500CI-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	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 - 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, SM4500CI-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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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 - 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, SM4500CI-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	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 - 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, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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



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 - 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, SM4500CI-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	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 - 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, SM4500CI-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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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 - 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, SM4500CI-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	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 - 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, 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 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	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 - 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, SM4500CI-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



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 - 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, SM4500CI-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



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 - 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, SM4500CI-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



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 - 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, SM4500CI-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



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 - 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, SM4500CI-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



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 - 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, 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 85.0 % 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	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 - 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	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 - 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, 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 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



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 - 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



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 - 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, 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 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	08/22/2024	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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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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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 4

Company Name: Conaco Phillips
Project Manager: Nicholas Poole
Address:
City: State: Zip:
Phone #: Fax #:
Project #: 212-ND-03106 A **Project Owner:**
Project Name: Pine Springs 2 State SMD #001
Project Location: Eddy Co, NM
Sampler 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.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE: ICE / COOL OTHER :	PRESERV	DATE	TIME	TPEX	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H245118	FS-1	C	1			X					9/21	8:30	X	X	X	
	FS-2					X						8:45	X	X	X	
	FS-3					X						9:00	X	X	X	
	FS-4					X						9:15	X	X	X	
	FS-7					X						9:30	X	X	X	
	FS-10					X						9:45	X	X	X	
	FS-13					X						10:00	X	X	X	
	FS-14					X						10:15	X	X	X	
	FS-15					X						10:30	X	X	X	
	FS-20					X						10:45	X	X	X	

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Relinquished By: Andrew Garcia
Date: 9/27/24
Time: 14:15
Received By: [Signature]
Date: 9/27/24
Time: [Blank]
Received By: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: Corrected Temp. °C: -0.5
 Cool Intact: Yes [X] No []
 Sample Condition: Cool Intact: Yes [X] No []
 CHECKED BY: (Initials) [Signature]

Turnaround Time: Standard [X] Rush []
 Thermometer ID #449
 Correction Factor -0.8°C
 Bacteria (only) Sample Condition: Cool Intact: Yes [] No []
 Observed Temp. °C: [Blank]
 Corrected Temp. °C: [Blank]

REMARKS:
 N.icholas.Poole@TetraTech.com
 Andrew.Garcia@TetraTech.com

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips
 Project Manager: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: 212C-MD-03105 A Project Owner: _____
 Project Name: Pine Springs 2 State SMD #001
 Project Location: Eddy Co, NM
 Sampler Name: Andrew Garcia

P.O. #: _____
 Company: Tetra Tech
 Attn: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	TPEX	BTEX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL						OTHER :
<u>H245718</u>	<u>FS-21</u>	<u>C</u>	<u>1</u>			<u>X</u>					<u>X</u>	<u>2024</u>	<u>8/21</u>	<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>FS-22</u>													<u>1115</u>			
	<u>FS-23</u>													<u>1130</u>			
	<u>FS-27</u>													<u>1145</u>			
	<u>FS-28</u>													<u>1200</u>			
	<u>FS-29</u>													<u>1215</u>			
	<u>FS-30</u>													<u>1230</u>			
	<u>FS-31</u>													<u>1245</u>			
	<u>FS-32</u>													<u>1300</u>			
	<u>FS-33</u>													<u>1315</u>			

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Relinquished By: Andrew Garcia
 Date: 8/21/24
 Received By: Nicholas Poole
 Date: 8/21/24
 Time: 1415

Remarks: Nicholas Poole @ Tetra Tech.com
Andrew Garcia @ Tetra Tech.com

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C: -0.5
 Corrected Temp. °C: -1.1

Turnaround Time: Standard
 Thermometer ID # #140
 Correction Factor: -0.8°C
 Bacteria (only) Sample Condition: Standard
 Cool Intact: Yes



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 4

Company Name: Conoco Phillips
Project Manager: Nicholas Poole
Address:
City: State: Zip:
Phone #: Fax #:
Project #: 212C-MD-03105A Project Owner:
Project Name: Pine Springs 2 State SMD #001
Project Location: Eddy Co, NM
Sampler Name: Andrew Garcia

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H245118													
01	FS-34	C	1			X				2024	1330	X	TPEX
02	FS-35										1345	X	BTEX
03	FS-36										1400		Chlorides
04	FS-37										1415		
05	FS-36										1430		
06	FS-39										1445		
07	FS-40										1500		
08	FS-41										1515		
09	FS-42										1530		
10	FS-43										1545		

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Relinquished By: Andrew Garcia
Date: 9/27/24
Time: 1415

Received By: [Signature]
Date: 9/27/24
Time: 1415

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C: 0.5
 Corrected Temp. °C: 1.1

Sample Condition:
 Cool Intact: Yes No
 Bacteria (only) Sample Condition: Yes No

Turnaround Time: Standard Rush
 #140 24 HR TXI

Thermometer ID: #449
Correction Factor: -0.8°C

REMARKS:
 N. Choles, Poole @ Tetra Tech
 Andrew. Garcia @ Tetra Tech.com

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:

Checked By: [Signature]
Initials: [Signature]

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips
 Project Manager: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: 212L-MD-03105A Project Owner: _____
 Project Name: Pine Springs 2 State SWD #001
 Project Location: Eddy Co, NM
 Sampler Name: Andrew Garcia
 FOR LAB USE ONLY

P.O. #: _____
 Company: Tetra Tech
 Attn: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	DATE	TIME	TPEX	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<u>H245718</u>	<u>FS-44</u>	<u>↓</u>	<u>1</u>			<u>X</u>				<u>9/21</u>	<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>31</u>	<u>↓</u>													
	<u>32</u>	<u>↓</u>													

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Relinquished By: Andrew Garcia
 Date: 9/24
 Time: 1415
 Received By: Nicholas Poole
 Date: _____
 Time: _____

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: Nicholas Poole @ TetraTech.com
Andrew Garcia @ TetraTech.com

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C: 0.5
 Corrected Temp. °C: 1.1
 Sample Condition: Intact Cool Yes No Yes No
 CHECKED BY: (Initials) yo.
 Turndown Time: _____ Standard Bacteria (only) Sample Condition
 Thermometer ID # #140 Rush Cool Intact Yes No Yes No
 Correction Factor -0.8°C 24 HR TEXT Corrected Temp. °C _____

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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 that reads "Mike Snyder". The signature is fluid and cursive.

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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 5 (H245142-01)

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	08/23/2024	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) 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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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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

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, SM4500CI-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

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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

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, SM4500CI-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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

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, SM4500CI-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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: FS - 11 (H245142-05)

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	08/23/2024	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) 96.4 % 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	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

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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:	08/23/2024	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	PINE SPRINGS 2 STATE SWD #001	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NEW MEXICO		

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, SM4500CI-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

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Conoco Phillips		BILL TO		ANALYSIS REQUEST	
Project Manager: Nicholas Poole		P.O. #:			
Address:		Company: Tetra Tech			
City:		Attn: Nicholas Poole			
Phone #: 505 2878		Address:			
Project #: 212C-MD-031054		City:			
Project Name: Pine Springs 2 State SWD #001		State:			
Project Location: Eddy Co, NM		Zip:			
Sampler Name: Andrew Garcia		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D. H245142	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
1	FS-5	C	1	X	X
2	FS-6	1	1	X	X
3	FS-8	1	1	X	X
4	FS-9	1	1	X	X
5	FS-11	1	1	X	X
6	FS-12	1	1	X	X
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Relinquished By: Andrew Garcia		Received By: Spodigney		TPEX X	
Date: 9/27/24		Date: 9/27/24		BTEX X	
Time: 08:37		Time: 10:30		Chlorides X	
Delivered By: (Circle One) UPS		Observed Temp. °C: -3.7		Turnaround Time: 24 HR FAX	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -3.3		Standard X	
REMARKS: Nicholas, Poole @ TetraTech.com		CHECKED BY: SP		Bacteria (only) X	
REMARKS: Andrew, Garcia @ TetraTech.com		Thermometer ID: #146		Cool Intact X	
		Correction Factor: -0.5°C		Sample Condition X	

† Cardinal cannot accept verbal changes. Please email changes to celey.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 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)

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) 98.5 % 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

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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:	08/27/2024	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, SM4500CI-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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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:	08/27/2024	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 - 48 (H245221-03)

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	08/28/2024	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) 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

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Nicholas Poole</u> Address: City: State: Zip: Phone #: Fax #: Project #: <u>212C-MD-02878</u> Project Owner: Project Name: <u>Pine Springs 2 State SWD #001</u> Project Location: <u>Eddy Co, NM</u> Sampler Name: <u>Andrew Garcia</u>		P.O. #: Company: <u>Tetra Tech</u> Attn: <u>Nicholas Poole</u> Address: City: State: Zip: Phone #: Fax #: State: Zip:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
Relinquished By: <u>Andrew Garcia</u> Date: <u>27 Aug 24</u> Time:		Received By: <u>ADPOOLE</u> Date: <u>27 Aug 24</u> Time:		Turnaround Time: <u>Standard</u> <input type="checkbox"/> <u>Rush</u> <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> <u>Cool Intact</u> <input type="checkbox"/> <u>Sample Condition</u> <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C
REMARKS: <u>Andrew Garcia @ tetratech.com</u> <u>Nicholas Poole @ tetratech.com</u>				
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<u>1245221</u>																
	<u>FS-46</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>	<u>27 Aug</u>	<u>1000</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>FS-47</u>											<u>1100</u>				
	<u>FS-48</u>											<u>1200</u>				



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".

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)

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) 98.0 % 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

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*=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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips
 Project Manager: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: 212C-MD-02878 Project Owner: _____
 Project Name: Pine Springs 2 State SWD #001
 Project Location: Eddy Co, NM
 Sampler Name: Andrew Garcia
 P.O. #: _____
 Company: Tetra Tech
 Attn: Nicholas Poole
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	Date	Time	Matrix	Preserv	SAMPLING														
							DATE	TIME	ANALYSIS												
	<u>H245022</u>	<u>FS-15</u>	<u>27 Aug</u>	<u>1300</u>	<input type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BTEX</u>											

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Relinquished By: Andrew Garcia
 Date: 27 Aug 24
 Time: 10:30
 Received By: APPOLVED
 Date: _____
 Time: _____

Turnaround Time: Standard
 Thermometer ID #140
 Correction Factor -0.5°C
 Bacteria (only) Sample Condition
 Cool Intact Yes No
 Observed Temp. °C
 Corrected Temp. °C

Delivered By: (Circle One) UPS - Bus - Other
 Observed Temp. °C 04.4
 Corrected Temp. °C 0.21
 Sample Condition Cool Intact Yes No
 CHECKED BY: (Initials) AP
 Remarks: Andrew Garcia @ tetratech.com
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
Nicholas.Poole@tetratech.com
 FORM 1001-3-23 08/03/24



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.

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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	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	R360 RED BLUFF	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - ORLA, TX		

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

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



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

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 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 387925

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1817955890
Incident Name	NAB1817955890 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	
<i>Please answer all the questions in this group.</i>	
Site Name	PINE SPRINGS 2 STATE SWD #001
Date Release Discovered	06/25/2018
Surface Owner	State

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

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State of New Mexico
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Oil Conservation Division
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QUESTIONS, Page 2

Action 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

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

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

QUESTIONS, Page 3

Action 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Critical
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions 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
<i>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.</i>	
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	05/20/2024
On what date will (or was) the remediation complete(d)	05/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	22250
What is the estimated volume (in cubic yards) that will be reclaimed	2472
What is the estimated surface area (in square feet) that will be remediated	25000
What is the estimated volume (in cubic yards) that will be remediated	2472

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.

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

QUESTIONS, Page 4

Action 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 387925 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@tetratech.com Date: 09/27/2024
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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 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	377568
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 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

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

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.

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.
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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 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 8

Action 387925

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>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.</i>	

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CONDITIONS

Action 387925

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 387925
	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 reseeded activities, inspections, and final pictures when revegetation is achieved.	9/30/2024