



August 7, 2024

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

Re: Deferral Request
Poker Lake Unit 18 TWR CVB
Incident Number NAPP2405454990
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Poker Lake Unit 18 TWR CVB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2405454990 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 19, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20603°, -103.82381°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On February 10, 2024, internal corrosion on a produced water pipeline resulted in the release of approximately 30.10 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping. A vacuum truck was immediately dispatched to the Site and recovered approximately 5.00 bbls of released fluids. XTO submitted a Release Notification Form C-141 (Form C-141) on February 23, 2024 and the release was assigned Incident Number NAPP2405454990.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

Depth to groundwater at the Site is estimated to be greater than 110 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On August 7, 2023, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-04759, located approximately 0.36 miles east of the Site was drilled utilizing a truck-mounted hollow-stem auger rig. The boring was drilled to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. No

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moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at that location is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Soil boring C-04759 well log is included in Appendix A. All wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 4,693 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the results of the Site characterization, the following Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) and TPH – diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On May 7, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected at a depth of 0.5 feet bgs. Delineation soil samples SS06 and SS07 were collected within the release extent and SS01 through SS05 were collected outside the release extent to define the edge of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected and a photographic log is included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation soil sample SS06 indicated chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for soil sample SS07 indicated chloride concentrations exceeded reclamation requirement, indicating the presence of waste-containing soil. Soil samples collected outside of the release extent (SS01 through SS05) exhibited all COC concentrations

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in compliance with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.

DELINEATION AND EXCAVATION ACTIVITIES

Between May 31 and July 8, 2024, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Eight potholes (PH01 through PH08) were advanced via hydrovac and six boreholes (BH01 through BH06) were advanced via hand auger to assess the lateral and vertical extent of the release. Some of the potholes (PH01 and PH02, PH04, PH06 through PH08) were advanced in the vicinity of where delineation soil samples were collected. PH01 was advanced in the area of SS07, PH02 in the area of SS06, PH04 in the area of SS05, PH06 in the area of SS01, PH07 in the area of SS02, and PH08 in the area SS03. All potholes and boreholes were advanced to depths ranging from 0.5 feet to 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. Field screening results and observations from all potholes and boreholes were logged on a lithologic/soil sampling log, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil was excavated to the maximum extent possible (MEP) with a backhoe in the area represented by delineation soil sample SS06, which contained chloride concentrations exceeding the Closure Criteria. The excavation occurred on the well pad near active production equipment and pipelines. To direct excavation activities, Ensolum personnel screened soil for VOCs and chlorides. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewall of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS05 were collected from the floor of the excavation at a depth of 1-foot bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from ground surface to 1-foot bgs. All confirmation soil samples were handled and analyzed in the same manner as described above and submitted to Cardinal. All confirmation soil sample locations are depicted on Figure 3.

The final excavation extent measured approximately 970 square feet. A total of approximately 36 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Disposal Facility located in Hobbs, New Mexico. Subsequent to receipt of confirmation laboratory analytical results, the excavation area was backfilled with clean fill material and recontoured to match pre-existing conditions. Since the release occurred on a pad at an active facility, revegetation will not occur until final reclamation of the pad is conducted.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS06 and BH01 collected at 0.5 feet bgs indicated chloride concentrations exceeded Closure Criteria. Soils in the vicinity of soil sample SS06 were removed during excavation activities; however, the soils in the area of BH01 could not be removed due to the presence of active production equipment and pipelines restricting access of heavy equipment. The laboratory analytical results for delineation soil sample BH01A collected at 4 feet bgs did not indicate a chloride concentration that exceeded the Closure Criteria or the reclamation requirement. Therefore, the soils in the vicinity of BH01 have been vertically delineated to below the reclamation requirement at 4 feet bgs.

Laboratory analytical results for soil samples SS07, BH04, and BH06, all collected within the release area at 0.5 feet bgs, indicated elevated chloride concentrations that exceeded reclamation requirement.

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These soil samples could not be accessed with heavy equipment either due to active production equipment and pipelines. The laboratory analytical results for delineations soil samples PH01 collected at 1 foot bgs, BH04B collected at 2 feet bgs, and BH06B collected at 2 feet bgs did not indicate chloride concentrations that exceed the Closure Criteria or the reclamation requirement. Therefore, the soils in the vicinity of SS07, BH04, and BH06 have been vertically delineated to below the reclamation requirement at 1 to 2 feet bgs. All other COC concentrations for the samples listed above and all other delineation soil samples collected indicated COC concentrations were below the strictest Table I Closure Criteria.

With the exception of chloride in soil sample BH01 collected at 0.5 feet bgs, laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were in compliance with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

DEFERENTIAL REQUEST

XTO is requesting deferral of final remediation due to active production equipment and process piping present in the area of BH01. The estimated area of remaining impacted soil measures an area of 505 square feet, and a total of approximately 75 cubic yards of impacted soil remains in place, assuming a depth of 4 feet bgs based on laboratory analytical results from soil sample BH01A. The impacted soil is limited to the area where active production equipment and pipelines are present and remediation would require a major facility deconstruction. The deferral area has been vertically defined by soil sample BH01A at 4 feet bgs and laterally defined by SS01/PH06, SS02/PH07, BH06/BH06A and a lined containment wall. Waste-containing soil is present in the areas represented by delineation soil samples SS07, BH04, and BH06, where elevated chloride concentrations (ranging from 1,920 mg/kg to 13,000 mg/kg) exceed reclamation requirement. The chloride impacted soils in this area have been vertically delineated by soil samples PH01, BH04B, and BH06B to depths of 1 to 2 feet bgs. The soils in this area are located where active production equipment and pipelines are present and is approximately 1,490 square feet and includes approximately 111 yards of waste-containing soil. The proposed deferral area and the area with chloride concentrations exceeding reclamation requirement and all delineation soil samples used to define these areas are depicted on Figure 4.

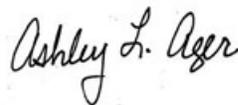
XTO does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 110 feet, and the entirety of the release remained on pad. Based on the presence of active production equipment and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2405454990 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Benjamin J. Bellill
Senior Geologist



Ashley L. Ager, MS, PG
Principal

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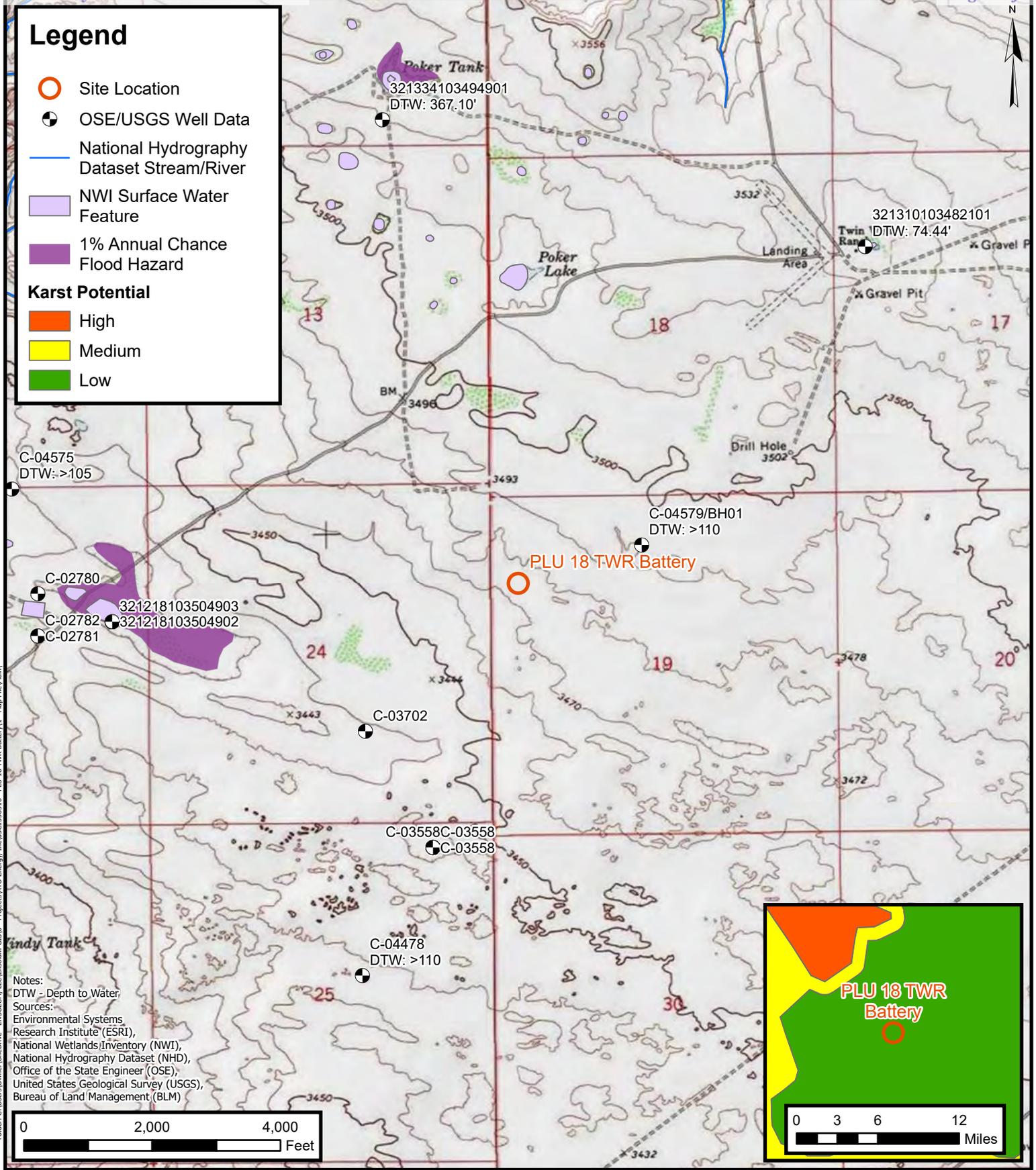
cc: Amy Ruth, XTO
Amanda Garcia, XTO
BLM

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Deferral Area
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Photographic Log
Appendix C Lithologic / Soil Sampling Logs
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Documents\GIS\0 - Projects\XTO Energy, Inc\03C1558316 - PLU 18 TWR Battery\1 - Map File\Main

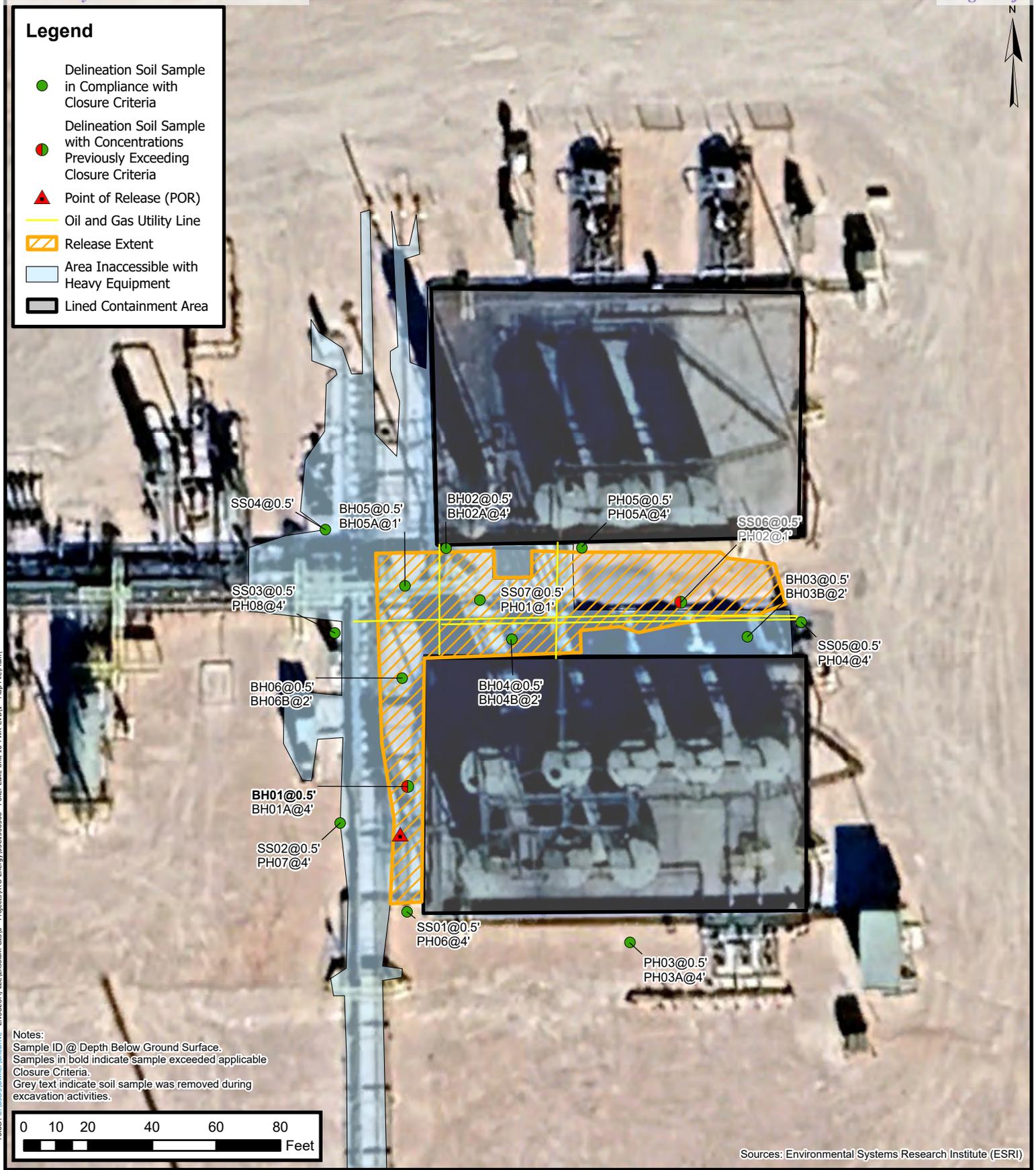


Site Receptor Map
 XTO Energy
 Poker Lake Unit 18 TWR CVB
 Incident Number: nAPP2405454990
 Unit D, Sec. 19. T24S, R31E
 Eddy County, New Mexico

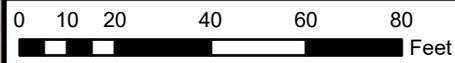
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Release Extent
- Area Inaccessible with Heavy Equipment
- Lined Containment Area



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

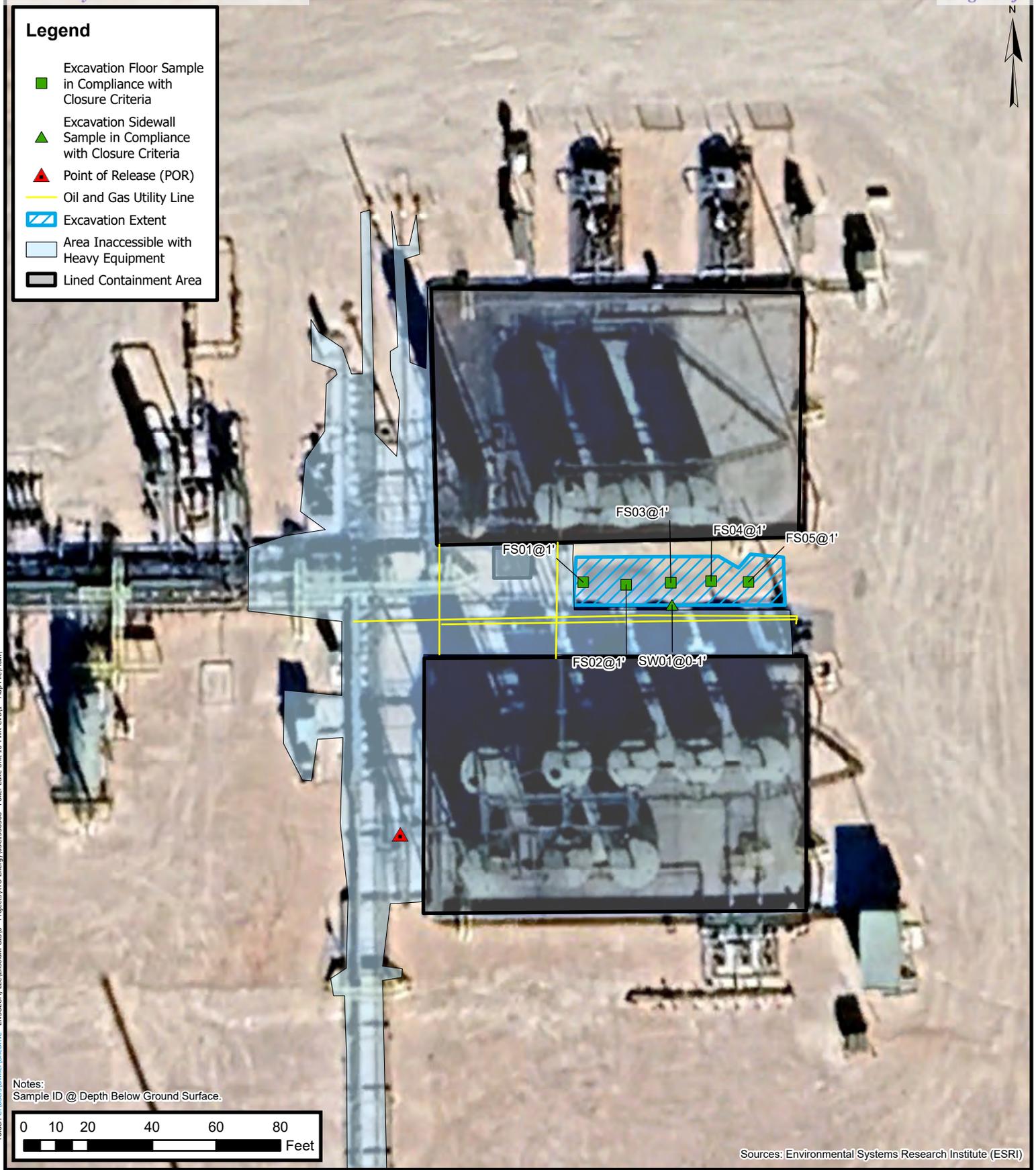
Delineation Soil Sample Locations

XTO Energy
 Poker Lake Unit 18 TWR CVB
 Incident Number: nAPP2405454990
 Unit D, Sec. 19, T24S, R31E
 Eddy County, New Mexico

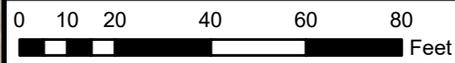
FIGURE 2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Excavation Extent
- Area Inaccessible with Heavy Equipment
- Lined Containment Area



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



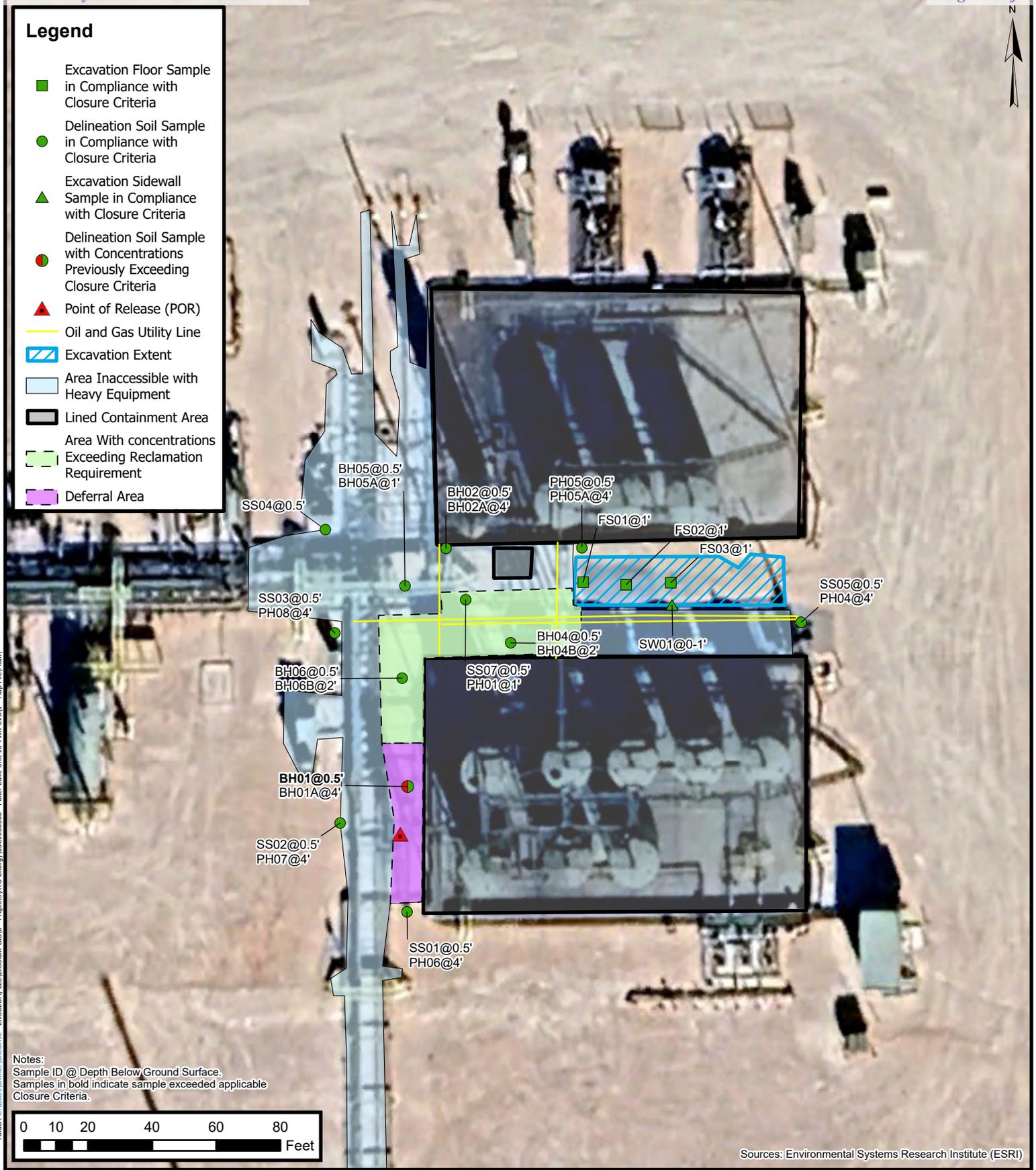
Excavation Soil Sample Locations

XTO Energy
 Poker Lake Unit 18 TWR CVB
 Incident Number: nAPP2405454990
 Unit D, Sec. 19. T24S, R31E
 Eddy County, New Mexico

FIGURE
3

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Excavation Extent
- Area Inaccessible with Heavy Equipment
- Lined Containment Area
- Area With concentrations Exceeding Reclamation Requirement
- Deferral Area



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)



Deferral Area
 XTO Energy
 Poker Lake Unit 18 TWR CVB
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 Unit D, Sec. 19. T24S, R31E
 Eddy County, New Mexico

FIGURE
4



TABLES

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 18 TWR CVB
XTO Energy, Inc
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH06	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS03	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH08	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS05	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH04	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06	05/07/2024	0.5	<0.050	<0.300	<10.0	11.0	32.0	11.0	43.0	20,800
PH02	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07	05/07/2024	0.5	<0.050	<0.300	<10.0	<10.0	20.4	<10.0	20	13,000
PH01	05/31/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
PH03	05/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH03A	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH05	05/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH05A	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH01	05/31/2024	0.5	<0.050	<0.300	<10.0	27.6	<10.0	27.6	27.6	20,800
BH01A	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH02	05/31/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH02A	05/31/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03B	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
BH04B	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
BH05A	07/08/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
BH06	07/08/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
BH06B	07/08/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 18 TWR CVB
XTO Energy, Inc
Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Confirmation Soil Samples										
FS01	06/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	06/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	06/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS04	06/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS05	06/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	06/03/2024	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NMOCD: New Mexico Oil Conservation Division
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- ORO: Oil Range Organics
- TPH: Total Petroleum Hydrocarbon
- NMAC: New Mexico Administrative Code
- Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

							Sample Name: C-04759 (BH01)		Date: 8/7/2023
							Site Name: PLU 18 TWR SAT BATTERY		
							Incident Number: nAPP2230551957		
							Job Number: 03C1558144		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: M. O'Dell		Method: Air Rotary
Coordinates: 32.207892, -103.817942							Hole Diameter: 6"		Total Depth: 110'
Comments: No field screening or sampling was conducted at the site.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
						0	SP	0-10'. Sand w/ trace caliche. Reddish brown, very fine to fine grained, subrounded to subangular, poorly graded, dry.	
						10	CCHE	10-40'. Caliche w/ sand. Light brown to tan, very fine to fine grained, subrounded to subangular, poorly graded, dry.	
					20				
					30				
					40				
						50	SP	40-100'. Sand w/ trace caliche. Reddish brown, very fine to fine grained, subrounded to subangular grains, poorly graded, dry. 50': Injecting/adding water & soap at 50'	
					60				
					70				
					80				
						90			
						100	SC	100-110'. Clayey sand, reddish orange very fine to fine grained, poorly graded, dry.	
						110		110': stopped drilling and set casing at 110'.	
TD @ 110' bgs.									



APPENDIX B

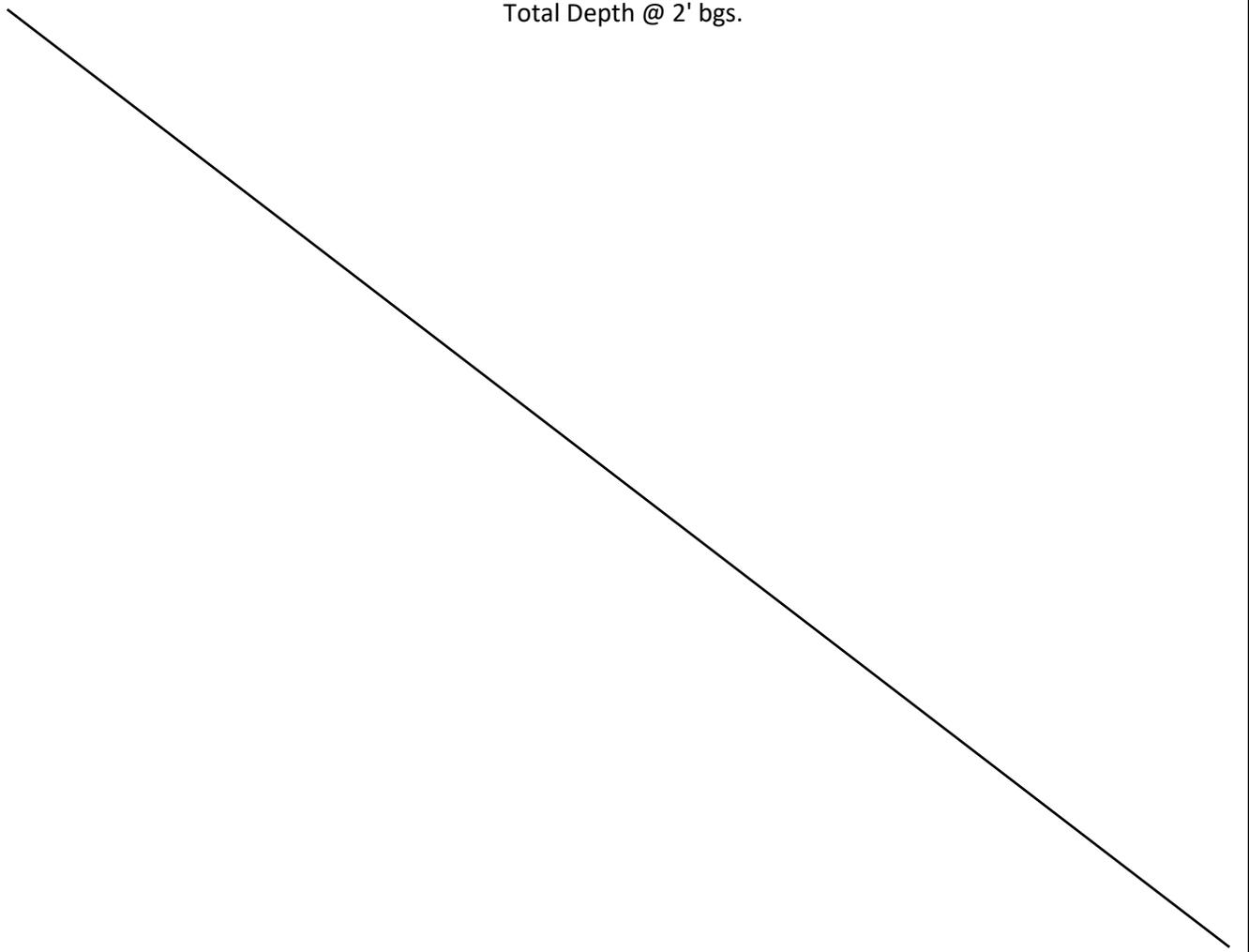
Photographic Log



APPENDIX C

Lithologic Soil Sampling Logs

		Sample Name: PH01		Date: 5/31/2024				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206310, -103.823613			Logged By: Connor Whitman		Method: Hydrovac			
			Hole Diameter: ~1'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	9,206	0.0	N	SS07	0.5	0	SW	Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor, no staining. Sand with silt. Brown, very fine grained, poorly graded, dry, no staining, no odor.
D	274	0.0	N	PH01	1	1	SP	
D	<168	0.0	N		2	2		
Total Depth @ 2' bgs.								

					Sample Name: PH02		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hydrovac	
Coordinates: 32.206305, -103.823396					Hole Diameter: ~1'		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	11,827	0.0	N	SS06	0.5	1	SW	Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor, no staining.
D	274	0.0	N	PH02	1	1	SP	Sand with silt. Brown, very fine grained, poorly graded, dry, no staining, no odor.
D	<168	0.0	N		2	2		
Total Depth @ 2' bgs.								
								

					Sample Name: PH03		Date: 5/31/2024					
					Site Name: Poker Lake Unit 18 TWR CVB				Incident Number: nAPP2405454990			
					Job Number: 03C1558368				Logged By: Connor Whitman		Method: Hydrovac	
					Coordinates: 32.206014, -103.823451				Hole Diameter: ~1'		Total Depth: 4'	
LITHOLOGIC / SOIL SAMPLING LOG												
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions				
D	<168	0.0	N	PH03	0.5	0	CCHE	Caliche with very fine brown sand and silt. Dry, no odor, no staining.				
D	<168	0.0	N		1	1	SP	Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, dry, no staining, no odor.				
D	<168	0.0	N		2	2						
D	<168	0.0	N		3	3						
D	<168	0.0	N	PH03A	4	4						
Total Depth @ 4' bgs.												

		Sample Name: PH04		Date: 5/31/2024				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206287, -103.823275			Logged By: Connor Whitman		Method: Hydrovac			
			Hole Diameter: ~1'		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
M	<179	0.0	N	SS05	0.5		SW	<p>Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor or staining.</p> <p>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.</p>
M	<168	0.0	N		1	1	SP	
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N	PH04	4	4		
Total Depth @ 4' bgs.								

					Sample Name: PH05		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hydrovac	
Coordinates: 32.206353, -103.823495					Hole Diameter: ~1'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	<168	0.0	N	PH05	0.5	0.5	CCHE	Caliche. Tan with brown sand and silt, dry, no odor, no staining.
M	<168	0.0	N		1	1	SP	Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.1	N	PH05A	4	4		
Total Depth @ 4' bgs.								

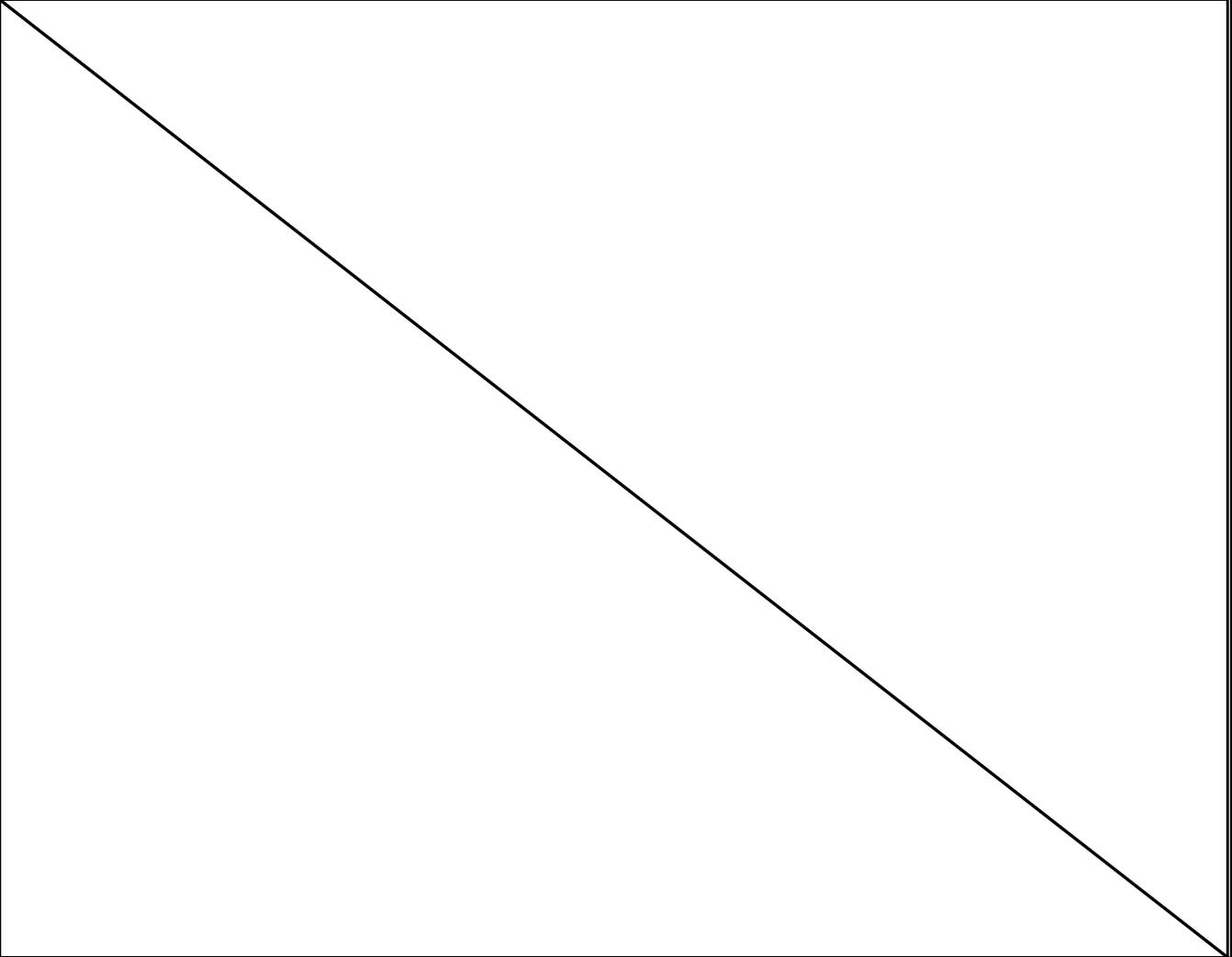
					Sample Name: PH06		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hydrovac	
Coordinates: 32.206042, -103.823676					Hole Diameter: ~1'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<179	0.0	N	SS01	0.5	1	SW	<p>Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor or staining.</p> <p>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.</p>
M	<168	0.0	N		1	2	SP	
M	<168	0.0	N		2	3		
M	<168	0.0	N		3	4		
M	<168	0.0	N	PH06A	4	4		
Total Depth @ 4' bgs.								

					Sample Name: PH07		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hydrovac	
Coordinates: 32.206119, -103.823742					Hole Diameter: ~1'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	<179	0.0	N	SS02	0.5	1	SW	<p>Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor or staining.</p> <p>Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.</p>
M	<168	0.0	N		1	1	SP	
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N	PH07	4	4		
Total Depth @ 4' bgs.								

					Sample Name: PH08		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hydrovac	
Coordinates: 32.206282, -103.823745					Hole Diameter: ~1'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<179	0.0	N	SS03	0.5	1	SW	Sand. Reddish brown, very fine - fine grained, well graded, some CCHF, dry, no odor or staining. Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.
M	<168	0.0	N		1	2	SP	
M	<168	0.0	N		2	3		
M	<168	0.0	N		3	4		
M	<168	0.0	N	PH08	4	4		
Total Depth @ 4' bgs.								

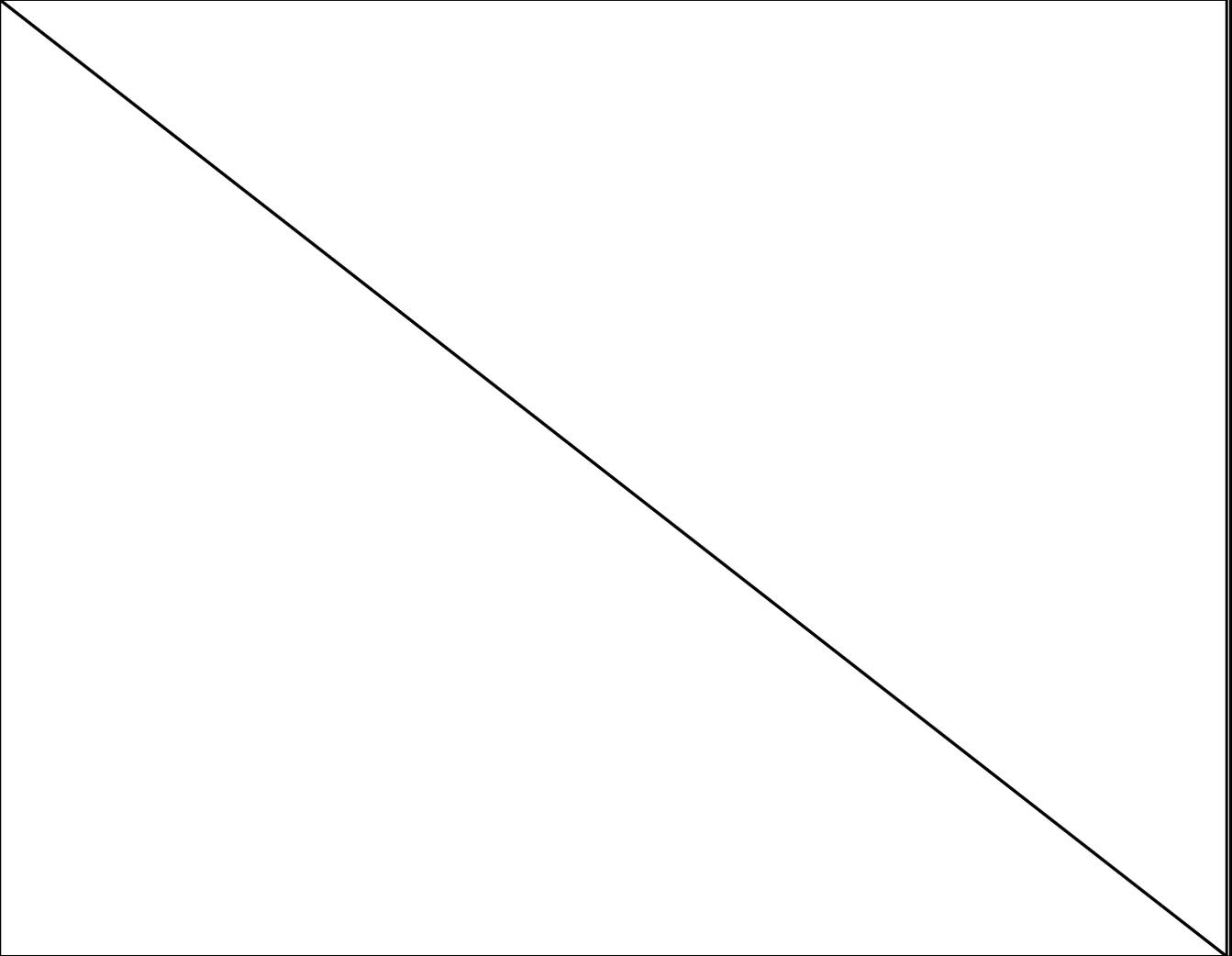
		Sample Name: BH01	Date: 5/31/2024					
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206150, -103.823673		Hole Diameter: ~4"	Method: Hand auger					
		Total Depth: 5'						
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	28,005	0.0	Y	BH01	0.5		CCHE	Caliche. Tan with very fine brown sand and silt, dry, slightly stained, no odor.
M	2,794	0.0	N		1	1	SP	Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.
M	2,794	0.0	N		2	2		
M	2,794	0.0	N		3	3		
M	408	0.0	N	BH01A	4	4		
M	514	0.0	N		5	5		some caliche.
Total Depth @ 5' bgs.								

					Sample Name: BH02		Date: 5/31/2024	
					Site Name: Poker Lake Unit 18 TWR CVB			
					Incident Number: nAPP2405454990			
					Job Number: 03C1558368			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Connor Whitman		Method: Hand auger	
Coordinates: 32.206354, -103.823632					Hole Diameter: ~4"		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	201	0.0	N	BH02	0.5	0.5	CCHE	Caliche. Tan with very fine brown sand and silt, dry, slightly stained, no odor.
M	<168	0.0	N		1	1	SP	Sand with silt. Brown, very fine grained, poorly graded, contains low plasticity clay and silt, moist, no staining, no odor.
M	<168	0.0	N		2	2		
M	<168	0.0	N		3	3		
M	<168	0.0	N	BH02A	4	4		
Total Depth @ 4' bgs.								

		Sample Name: BH03		Date: 7/8/24				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206275, -103.823329			Logged By: Joshua Boxley		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<162.4	0.0	N	BH03	0.5	0	CCHE	(0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain
D	<162.4	0.0	N		1	1	SP	(1-2') SAND, dark brown, with LP clay no odor, no stain
D	<162.4	0.0	N	BH03B	2	2		
						Total depth @ 2' bgs		
								

		Sample Name: BH04		Date: 7/8/24				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206272, -103.823568			Logged By: Joshua Boxley		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,885.6	0.0	N	BH04	0.5	0	CCHE	(0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain
D	1,416.8	0.0	N		1	1	SP	(1-2') SAND, dark brown, with LP clay no odor, no stain
D	<162.4	0.0	N	BH04B	2	2		
						Total depth @ 2' bgs		
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		Sample Name: BH05		Date: 7/8/24				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.2062322, -103.823674			Logged By: Joshua Boxley		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	800	0.0	N	BH05	0.5	0	CCHE	(0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain
D	302.4	0.0	N	BH05A	1	1	SP	(1-2') SAND, dark brown, with LP clay no odor, no stain
D	<162.4	0.0	N		2	2		
						Total depth @ 2' bgs		

		Sample Name: BH06		Date: 7/8/24				
		Site Name: Poker Lake Unit 18 TWR CVB						
		Incident Number: nAPP2405454990						
		Job Number: 03C1558368						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.206243, -103.823678			Logged By: Joshua Boxley		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements made with a +40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,316	0.0	N	BH06	0.5	0	CCHE	(0-1') CALICHE beige, brown sand, silt, dry, no odor, no stain
D	728	0.0	N		1	1	SP	(1-2') SAND, dark brown, with LP clay no odor, no stain
D	<162.4	0.0	N	BH06B	2	2		
						Total depth @ 2' bgs		
								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS06 0.5' (H242478-01)

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	05/10/2024	ND	2.06	103	2.00	3.31	
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	20800	16.0	05/10/2024	ND	432	108	400	3.64	QM-07

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	05/09/2024	ND	197	98.5	200	0.158	
DRO >C10-C28*	32.0	10.0	05/09/2024	ND	208	104	200	1.39	
EXT DRO >C28-C36	11.0	10.0	05/09/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS07 0.5' (H242478-02)

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	05/10/2024	ND	2.06	103	2.00	3.31		
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16		
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19		
Total BTEX	<0.300	0.300	05/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	13000	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158		
DRO >C10-C28*	20.4	10.0	05/09/2024	ND	208	104	200	1.39		
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476
 Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Ben Belli
Address: 3122 National Parks Hwy
City: CARLSBAD
State: NM **Zip:** 88220
Phone #: (989) 854-0852 **Fax #:**
Project #: 03C1558308 **Project Owner:**
Project Name: POKER LAKE UNIT 18 TWR CIVB
Project Location: 32.20003, -103.82381
Sampler Name: Marahna O'Dell
FOR LAB USE ONLY

BILL TO
P.O. #:
Company: XTO Energy
Attn: Amy Ruth
Address: 3104 E. Greene St
City: CARLSBAD
State: NM **Zip:** 88220
Phone #:
Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (G)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			
H042478	1	SS06	G	1			X					5/12/24	13:00	Chlorides
	2	SS07	G	1			X					5/12/24	13:10	TPH
														BTEX

PLEASE NOTE: Laundry and Damages. Cardinal's facility and chain custody method for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]
Date: 5/12/24
Time: 13:18
Received By: Spederignelf
Date:
Time:

Observed Temp. °C: 21.1
Corrected Temp. °C:
Sample Condition: Cool Intact
 Yes No
 Yes No
Checked By: [Signature]
Turnaround Time: 5 days
Thermometer ID #: #140
Correction Factor: -0.5°C
Standard Flush:
Bacteria (only) Sample Condition: Cool Intact
 Yes No
 Yes No
Corrected Temp. °C:

Remarks: Incident # 221101001
 model @ ensolum.com
 center: 221101001

† Cardinal cannot accept verbal changes. Please email changes to cely.teene@cardinallabsnm.com



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

May 13, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS 01 0.5' (H242479-01)

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	05/10/2024	ND	2.06	103	2.00	3.31	
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16	
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19	
Total BTEX	<0.300	0.300	05/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	208	104	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS 02 0.5' (H242479-02)

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	05/13/2024	ND	2.06	103	2.00	3.31	
Toluene*	<0.050	0.050	05/13/2024	ND	2.13	106	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/13/2024	ND	2.13	107	2.00	5.16	
Total Xylenes*	<0.150	0.150	05/13/2024	ND	6.51	108	6.00	6.19	
Total BTEX	<0.300	0.300	05/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	208	104	200	1.39	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS 03 0.5' (H242479-03)

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	05/10/2024	ND	2.06	103	2.00	3.31		
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16		
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19		
Total BTEX	<0.300	0.300	05/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158		
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	208	104	200	1.39		
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS 04 0.5' (H242479-04)

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	05/10/2024	ND	2.06	103	2.00	3.31		
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16		
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19		
Total BTEX	<0.300	0.300	05/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158		
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	208	104	200	1.39		
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND						

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SS 05 0.5' (H242479-05)

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	05/10/2024	ND	2.06	103	2.00	3.31		
Toluene*	<0.050	0.050	05/10/2024	ND	2.13	106	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/10/2024	ND	2.13	107	2.00	5.16		
Total Xylenes*	<0.150	0.150	05/10/2024	ND	6.51	108	6.00	6.19		
Total BTEX	<0.300	0.300	05/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	05/10/2024	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	05/09/2024	ND	197	98.5	200	0.158		
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	208	104	200	1.39		
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND						

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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) 393-2475

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: (989) 854-0852 Fax #:

Project #: 03C1558308 Project Owner:

Project Name: POKER LAKE Unit 18 TWR CVR

Project Location: 32.20003, -103.82381

Sampler Name: Manaha O'Dell

BILL TO

P.O. # X10

Company: AEC Energy

Attn: Amy Ruff

Address: 3104 E Greer St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	Matrix	PRESERV	SAMPLING	DATE	TIME	ANALYSIS	
								Chlorides	TPH
424279	SS01	0.5'	(G)RAB OR (C)OMP.			5/1/24	11:35	X	X
	SS02						11:45	X	X
	SS03						11:55	X	X
	SS04						12:10	X	X
	SS05						12:50	X	X

PLEASE NOTE: Liability and Damages, Carlsbad facility and clients establish liability for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors and/or its related to the performance of services hereunder by Cardinal. Acceptance of higher such shall be deemed upon sign of this above stated statement or otherwise.

Relinquished By: [Signature]

Received By: [Signature]

Date: 5/1/24

Time: 15:18

Observed Temp. °C: 21.1

Corrected Temp. °C: [Blank]

Sampler - UPS - Bus - Other: [Blank]

Checked By: [Signature]

Turnaround Time: 5 days

Standard Rush: [Blank]

Backlog (only) Sample Condition: [Blank]

Corrected Temp. °C: [Blank]

Vertical Results: Yes No Add'l Phone #: [Blank]
 All Results are emailed. Please provide Email address:
 bellie.ensolum.com, modalle.ensolum.com
 REMARKS: Incident #: nApp2405454990
 cost center: 211011061

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



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

June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 01 1 (H243132-01)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	288	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

Cardinal Laboratories

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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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 02 1 (H243132-02)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: BH 01 .5 (H243132-03)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	20800	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	27.6	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: BH 01A 4 (H243132-04)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	400	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 04 4 (H243132-05)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 05 .5 (H243132-06)

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	06/05/2024	ND	1.92	96.1	2.00	1.41		
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	112	16.0	06/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 05A 4 (H243132-07)

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	06/05/2024	ND	1.92	96.1	2.00	1.41		
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	112	16.0	06/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 06 4 (H243132-08)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	16.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 07 4 (H243132-09)

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	06/05/2024	ND	1.92	96.1	2.00	1.41		
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	48.0	16.0	06/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 08 4 (H243132-10)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	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	16.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 03 .5 (H243132-11)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	16.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	229	114	200	2.45	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	230	115	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: PH 03A 4 (H243132-12)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	<16.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: BH 02 .5 (H243132-13)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	64.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	05/31/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: BH 02A 4 (H243132-14)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	48.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 67.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Handwritten signature of Mike Snyder

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
 Project Manager: Ben Bellill
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 337 257-8307 Fax #: _____
 Project #: 03C1558368 Project Owner: XTO
 Project Name: Poker Lake Unit 18 TWR CVB
 Project Location: _____
 State: NM Zip: 88220
 Phone #: _____
 Sample Name: Connor Whitman
 Fax #: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
AB43132	PH01	1	G	1							5-31-24	950			
	PH02	1	G	1							1005				
	BH01	.5									1020				
	BH0A	4									1050				
	PH04	4									1210				
	PH.S	.5									1215				
	PH0SA	4									1235				
	PH0G	4									1255				
	PH07	4									1325				
	PH08	4									1355				

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Relinquished By: CHH
 Date: 6-4-24
 Time: 1430
 Received By: [Signature]
 Date: _____
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp.: °C 23.3
 Corrected Temp.: °C _____
 Sample Condition: Intact Cool Yes No

Checked By: [Signature]
 Turnaround Time: Standard Rush
 Thermometer ID: #1140
 Correction Factor: 0.0
 Bacteria (only) Sample Condition: Intact Cool Yes No

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
 Project Manager: Ben Bellill
 Address: 3122 National Parks Hwy
 City: Carlsbad State: NM Zip: 88220
 Phone #: 337 257-8307 Fax #: [blank]
 Project #: 03C1558368 Project Owner: XTO
 Project Name: Poker Lake Unit 18 TWR CVB
 Project Location: [blank]
 Sampler Name: Connor Whitman
 P.O. #: [blank] Company: XTO Energy Inc.
 Attn: Amy Ruth
 Address: 3104 E. Green St.
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: [blank] Fax #: [blank]

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H243132															
11	PH03	.5	G	1						5-31-24	1410				
12	PH03A	.4									1430				
13	BH02	.5									1435				
14	BH02A	.4									1455				

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Relinquished By: [Signature]
 Date: 6-4-24
 Time: 1420
 Received By: [Signature]
 Date: [blank]
 Time: [blank]

Delivered By: (Circle One) Observed Temp.: °C 23
 Sampler - UPS - Bus - Other: Corrected Temp.: °C [blank]
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) [Signature]
 Turnaround Time: Standard Rush
 Thermometer ID #140 #140
 Correction Factor 0.00 0.00
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Incident ID: nAPP2405454990

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



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

June 07, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: POKER LAKE UNIT 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: FS 01 1' (H243133-01)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	48.0	16.0	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: FS 02 1' (H243133-02)

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	06/05/2024	ND	1.92	96.1	2.00	1.41		
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	06/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: FS 03 1' (H243133-03)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: FS 04 1' (H243133-04)

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	06/05/2024	ND	1.92	96.1	2.00	1.41		
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67		
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95		
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06		
Total BTEX	<0.300	0.300	06/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	64.0	16.0	06/07/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00		
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07		
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: FS 05 1' (H243133-05)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	06/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/04/2024	Sampling Date:	06/03/2024
Reported:	06/07/2024	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20603, -103.82381		

Sample ID: SW 01 0-1' (H243133-06)

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	06/05/2024	ND	1.92	96.1	2.00	1.41	
Toluene*	<0.050	0.050	06/05/2024	ND	1.89	94.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	06/05/2024	ND	1.77	88.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	06/05/2024	ND	5.51	91.8	6.00	3.06	
Total BTEX	<0.300	0.300	06/05/2024	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	48.0	16.0	06/06/2024	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	06/05/2024	ND	209	105	200	2.00	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	215	108	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Ben Belli

Address: 3122 National Parks Hwy
 City: Carlsbad

Phone #: 337 257-8307 State: NM Zip: 88220

Project #: 03C1558368 Fax #: Project Owner: XTO

Project Name: Poker Lake Unit 18 TWR CVB

Project Location:

Sampler Name: Connor Whitman

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #: Company: XTO Energy Inc.

Attn: Army Ruth

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	CHLORIDE
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
4243133	ES01	1	U	1								6-3-24	1600			
	ES02	2	U	1									1605			
	ES03	3	U	1									1610			
	ES04	4	U	1									1615			
	ES05	5	U	1									1620			
	SW01	0-1	U	1									1625			

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Abandoned By: *CHW*
 Date: 6-4-24
 Time: 1420

Received By: *Connor Whitman*
 Date: *6-4-24*
 Time: *1420*

Received By: *Ben Belli*

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

Observed Temp. °C: 8.3
 Corrected Temp. °C:

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

CHECKED BY: *Ben Belli*

Turnaround Time: Standard Rush
 Thermometer ID: *773*
 Correction Factor: *0.03°C*
 Incident ID: nAPP2405454990

Bacteria (only) Sample Condition
 Cool Intact: Yes No
 Observed Temp. °C: *8.3*
 Corrected Temp. °C:

REMARKS:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 bbelli@ensolum.com, TMorrissey@ensolum.com

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



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

July 15, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 18 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 07/09/24 13:57.

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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 03 0.5' (H244064-01)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	48.0	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 03B 2' (H244064-02)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 04 0.5' (H244064-03)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	4800	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 04B 2' (H244064-04)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 05 0.5' (H244064-05)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	592	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 05A 1' (H244064-06)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	240	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 06 0.5' (H244064-07)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEN BELILL
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/09/2024	Sampling Date:	07/08/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	PLU 18 TWR CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558368	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20603-103.82381		

Sample ID: BH 06B 2' (H244064-08)

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	07/10/2024	ND	1.89	94.6	2.00	1.21	
Toluene*	<0.050	0.050	07/10/2024	ND	1.93	96.5	2.00	0.558	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	2.07	103	2.00	0.821	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	6.10	102	6.00	0.662	
Total BTEX	<0.300	0.300	07/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/10/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/10/2024	ND	186	93.1	200	0.725	
DRO >C10-C28*	<10.0	10.0	07/10/2024	ND	183	91.7	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/10/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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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District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 371378

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371378
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405454990
Incident Name	NAPP2405454990 POKER LAKE UNIT 18 TWR CVB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source

Please answer all the questions in this group.

Site Name	Poker Lake Unit 18 TWR CVB
Date Release Discovered	02/10/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 30 BBL Recovered: 5 BBL Lost: 25 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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 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 371378

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371378
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/07/2024
--	--

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Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(575) 748-1283 Fax:(575) 748-9720

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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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371378
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
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 ½ and 1 (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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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	Low
A 100-year floodplain	Between ½ and 1 (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)	20800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27.6
GRO+DRO (EPA SW-846 Method 8015M)	27.6
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	05/07/2024
On what date will (or did) the final sampling or liner inspection occur	07/08/2024
On what date will (or was) the remediation complete(d)	07/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	1490
What is the estimated volume (in cubic yards) that will be reclaimed	111
What is the estimated surface area (in square feet) that will be remediated	505
What is the estimated volume (in cubic yards) that will be remediated	75

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 371378

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371378
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/07/2024
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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 371378

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	371378
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	"pipelines, stairs, stair supports, electrical lines, electrical support rails, pipeline supports, power poles, electrical power lines. Removal could cause inaccess to battery, electrical hazards to onsite staff, unstable production equipment, other releases."
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	505
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	75

Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.

Enter the facility ID (##) on which this deferral should be granted	PLU 18 TWIN WELLS RANCH WEST [fAPP2126740996]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 08/07/2024
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QUESTIONS, Page 6

Action 371378

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	371378
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	360687
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/08/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	6000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 371378

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371378
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2405454990) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are limited to the area where active production equipment and pipelines are present and remediation would require a major facility deconstruction, which include sample area (BH01). At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	9/5/2024