



December 11, 2024

**New Mexico Energy Minerals and Natural Resources Department**

1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Deferral Request  
PLU 29 BS West Battery  
Incident Number NAPP2425727179  
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 site assessment, delineation, excavation, and soil sampling activities at the PLU 29 BS West Battery (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 crude oil and 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 NAPP2425727179 until the Site is reconstructed, and/or the well pad is abandoned.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit F, Section 29, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.10427°, -103.80211°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On September 12, 2024, corrosion on a produced water surface pipeline resulted in the release of approximately 15 barrels (bbls) of crude oil and 15 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 14 bbls of released fluids. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) to the New Mexico Oil Conservation Division (NMOCD) on September 13, 2024. The release was assigned Incident Number NAPP2425727179.

#### **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 51 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On May 29, 2024, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-4826, located approximately 300 feet northeast of the Site was drilled utilizing an air rotary drilling rig. The boring was drilled to a total

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depth of 55 feet bgs. No 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 beneath the Site is greater than 55 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A. All wells used to determine depth are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 3,891 feet south 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 in a medium potential karst designation area, however the release and a majority of the remedial activities occurred prior to December 1, 2024, the effective date of the NMOCD published *Karst Potential Occurrence Zones Public Notice*. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD 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: 10,000 mg/kg

## SITE ASSESSMENT ACTIVITIES

On September 27, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141, information provided by XTO, and visual observations. Five delineation soil samples (SS01 through SS05) were collected within the release extent area at a depth 0.5 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing and Hach® chloride QuanTab® test strips. 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 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 contaminants 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.

Laboratory analytical results from delineation soil samples SS01 through SS03, and SS05 indicated chloride and TPH concentrations exceeded the Closure Criteria. Based on visible staining and laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.

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## DELINEATION AND EXCAVATION ACTIVITIES

Between November 21 through December 10, 2024, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Nine potholes were advanced via backhoe or core drill to assess soil impacts. Four of the potholes were advanced in the vicinity of SS01 through SS04 located within the release extent to define the release vertically and five potholes (SS06 through SS09, and SS11) were advanced around the release extent to define the lateral extent of soil impacts. All potholes were advanced to depths ranging from 1 foot to 5 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 5 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 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 from the area represented by delineation soil samples SS04 and SS05. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment; however, the accessible spill area was excavated to the maximum extent possible (MEP) with heavy equipment. Heavy equipment could not access soil sample locations SS01 through SS03 due to proximity to active production equipment and pipelines. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. Confirmation soil samples FS01 through FS04 were collected at a depth of 4 feet bgs and SW01 and SW02 were collected at depths ranging from ground surface to 4 feet bgs. 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 were handled and analyzed in the same manner as described above. All floor and sidewall excavation confirmation soil sample locations are depicted on Figure 3.

The final excavation extent measured approximately 671 square feet. A total of approximately 100 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the OWL Landfill Facility in Jal, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS03, and SS05 collected from within the release extent indicated TPH and chloride concentrations exceed Closure Criteria. Soil sample SS05 was removed during excavation activities. Soil sample SS04 indicated elevated chloride concentrations but was removed during excavation activities. Confirmation soil sample SW02 indicated GRO/DRO concentrations exceed Closure Criteria. Confirmation soil sample SW01 collected on November 11, 2024 indicated elevated TPH concentrations but the sidewall sample was removed by extending the sidewall to the northeast during excavation activities and another SW01 collected on December 3, 2024 was in compliance with Closure Criteria. Due to active production equipment and process piping present in the area, soil samples SS01 through SS03, and SW02 could not be removed. However, laboratory analytical results from the terminal depth of SS01 through SS03 indicated that vertical delineation is achieved at depth ranging from 1-foot to 4 feet bgs within the release area.

All other delineation and confirmation soil samples collected indicated COC concentrations in compliance with Closure Criteria. This includes all lateral delineation soil samples (SS06 through SS08, and SS11) and provide full lateral definition of impacted soil. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix D.

## DEFERRAL REQUEST

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XTO is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures an area of 3,293 square feet and a total of approximately 380 cubic yards of TPH and chloride impacted soil remains in place, assuming depths ranging from 1-foot to 4 feet bgs based on laboratory analytical results from delineation soil samples. The impacted soil is limited to the area beneath active production equipment and surface piping, where remediation would require a major facility deconstruction. The release extent has been vertically delineated by delineation soil samples SS01A collected at 2 feet bgs, SS02A collected at 4 feet bgs, and SS03A collected at 1 feet bgs. The release extent has been laterally delineated by all delineation soil samples collected in potholes SS06 through SS08, and SS11, and excavation sidewall soil sample SW01 collected on December 3, 2024 from depths ranging from ground surface to 4 feet bgs. The deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 51 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 NAPP2425727179 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](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Benjamin J. Belill  
Senior Geologist



Tacoma Morrissey, MS  
Associate Principal

cc: Colton Brown, XTO  
Kaylan Dirkx, XTO  
BLM

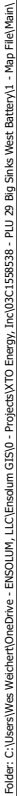
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral Area Map
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



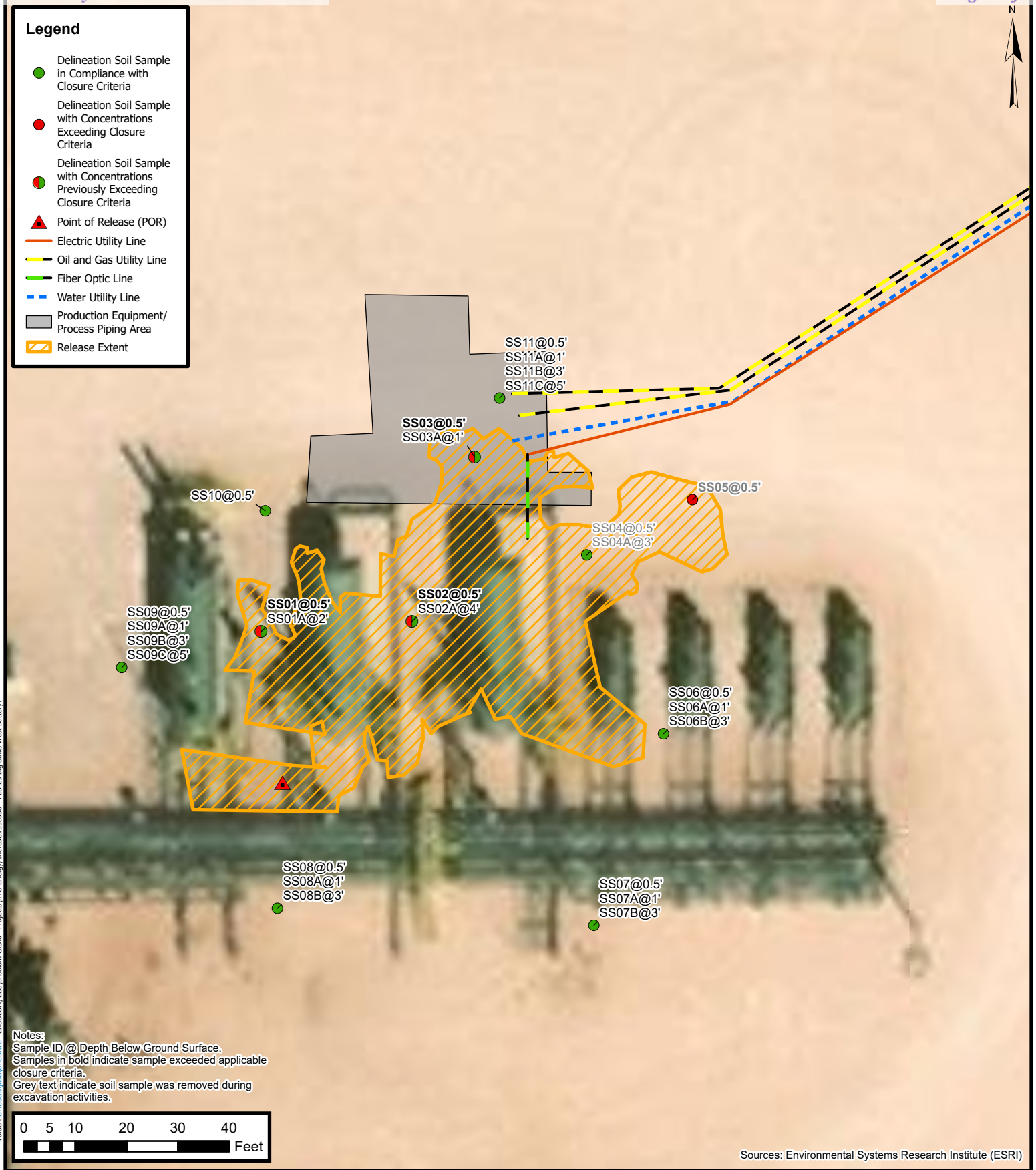


FIGURES



**FIGURE**  
**1**

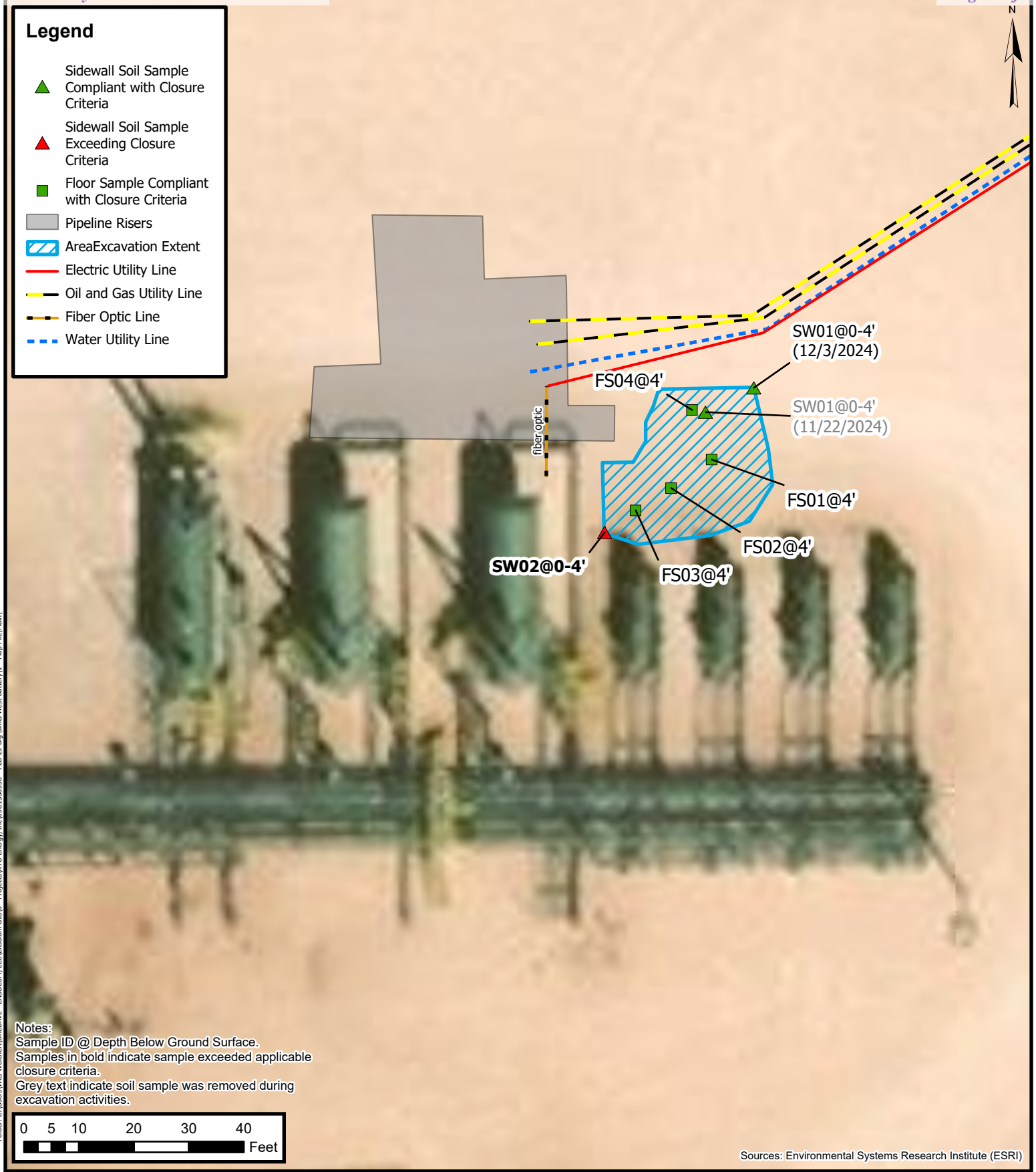




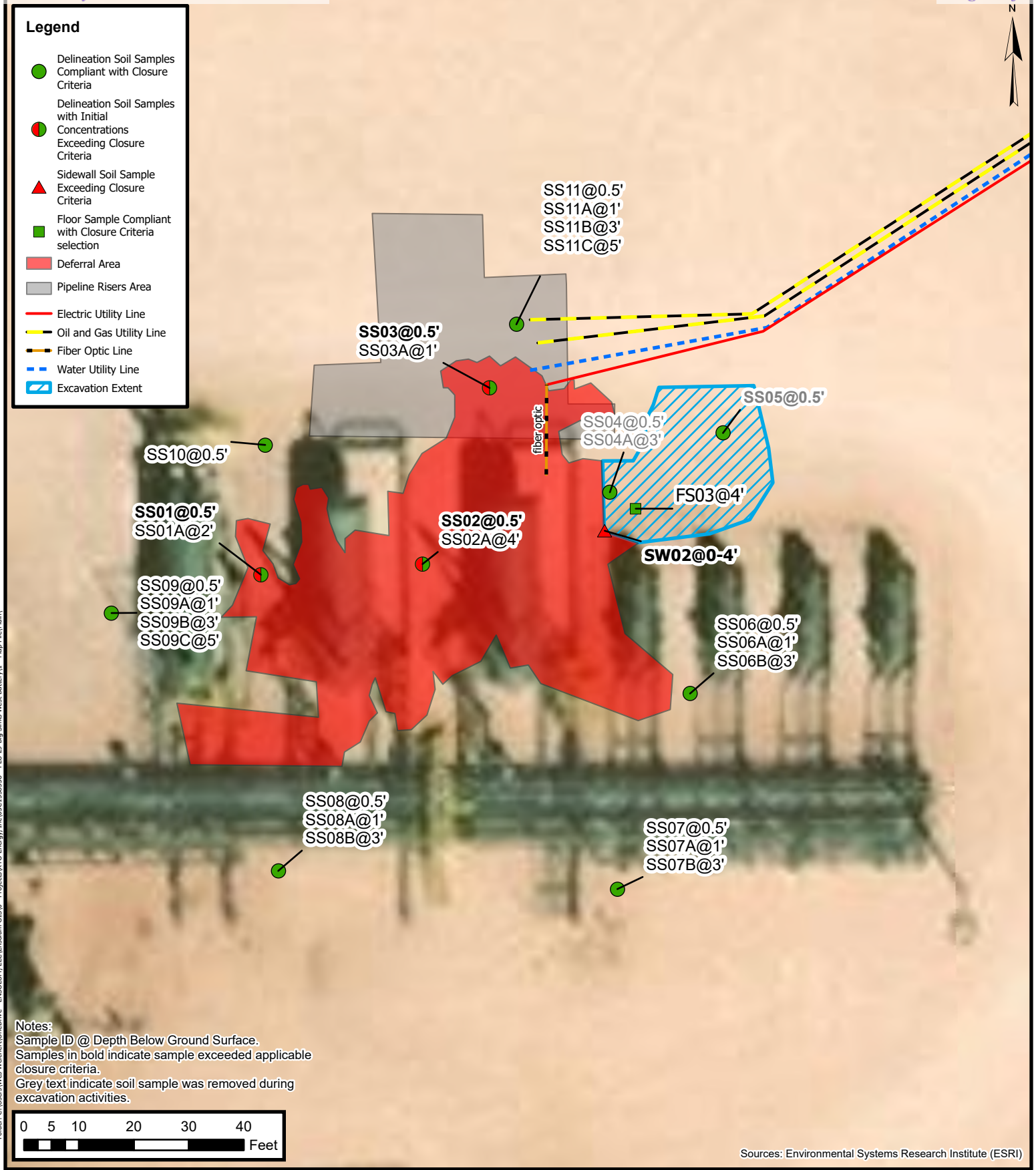
## Delineation Soil Sample Locations

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**FIGURE**  
**2**











TABLES

TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 29 Big Sinks West Battery  
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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	10,000
Delineation Soil Samples										
SS01	09/27/2024	0.5	<0.100	25.1	752	13,900	1,660	14,700	16,400	21,400
SS01A	12/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS02	09/27/2024	0.5	<0.050	<0.300	<10.0	1,140	148	1,140	1,290	19,200
SS02A	12/09/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS03	09/27/2024	0.5	<0.050	26.2	910	22,200	2,800	23,100	25,900	32,800
SS03A	12/09/2024	1	<0.050	<0.300	<10.0	22.5	<10.0	22.5	22.5	96
SS04	09/27/2024	0.5	<0.050	<0.300	<10.0	40	<10.0	40	40	944
SS04A	11/22/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SS05	09/27/2024	0.5	<0.050	4.54	483	9,170	1,200	9,350	10,600	31,200
SS06	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SS06A	12/09/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SS06B	12/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SS07	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SS07A	12/09/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SS07B	12/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS08	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS08A	12/09/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
SS08B	12/09/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS09	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
SS09A	12/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS09B	12/03/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS09C	12/03/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS10	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS11	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SS11A	12/03/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS11B	12/03/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS11C	12/03/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
Confirmation Soil Samples										
FS01	11/22/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS02	11/22/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS03	11/22/2024	4	<0.050	<0.300	<10.0	14.0	<10.0	14.0	14.0	832



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 29 Big Sinks West Battery 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	10,000
FS04	12/03/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	11/22/2024	0-4	<0.050	3.04	74.7	476	31.3	550.7	582	384
SW01	12/03/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW02	11/22/2024	0-4	<0.050	1.03	31	984	109	1,015	1,124	2,120

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

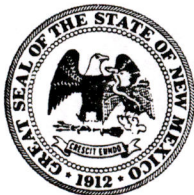
Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

CCC DT JUN 5 2024 11:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4826		WELL TAG ID NO.		OSE FILE NO(S) C-4826-POD1			
	WELL OWNER NAME(S) XTO Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3104 E. Greene Street				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 06	SECONDS 18.7344	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	48	04.230	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 5-29-24		DRILLING ENDED 5-29-24		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 5-29-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. <u>C-4826</u>	POD NO. <u>1</u>	TRN NO. <u>758878</u>
LOCATION <u>255.31E. 29 421</u>	WELL TAG ID NO. <u>—</u>	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10'	Brown sand with caliche	Y    ✓ N	
	10	30	20'	Tan fine sand with small rock	Y    ✓ N	
	30	55	25'	Tan fine sand	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
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					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: Dry hole					TOTAL ESTIMATED WELL YIELD (gpm):    0	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
MISCELLANEOUS INFORMATION:		
<div style="text-align: right; color: blue; font-weight: bold; font-size: 1.2em;">000 011 JUN 5 2024 PM 1:00</div>		
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Maley		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">             _____            SIGNATURE OF DRILLER / PRINT SIGNEE NAME         </div> <div style="text-align: center;">             Jason Maley           </div> <div style="text-align: center;"> <div style="font-size: 1.5em; font-family: cursive;">6/3/24</div>              _____              DATE           </div> </div>	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO		PAGE 2 OF 2



## APPENDIX B

### Photographic Log

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## Photographic Log

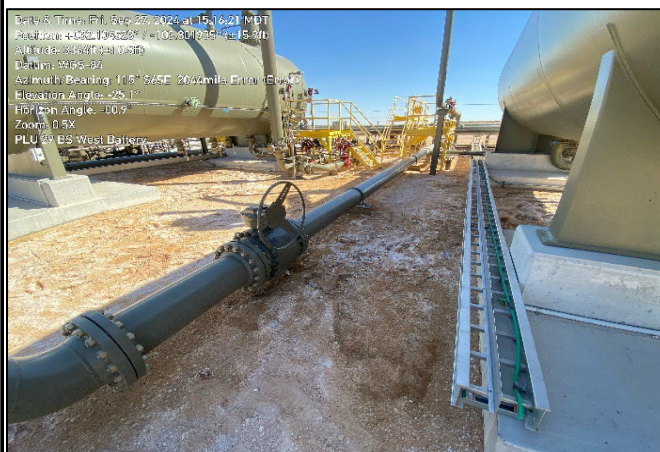
XTO Energy, Inc.

PLU 29 Big Sinks West Battery

Incident Number nAPP2425727179



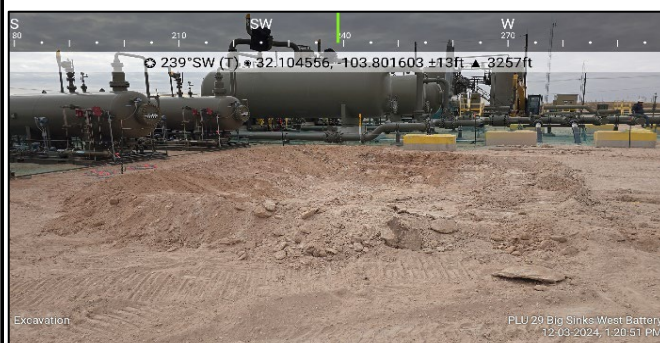
Photograph: 1 Date: 9/27/2024  
Description: Site assessment, release extent area.  
View: West



Photograph: 2 Date: 9/27/2024  
Description: Site assessment, release extent area.  
View: South



Photograph: 3 Date: 11/21/2024  
Description: Delineation activities, PH04.  
View: Northeast



Photograph: 4 Date: 12/3/2024  
Description: Final excavation extent.  
View: Southwest

**Photographic Log**

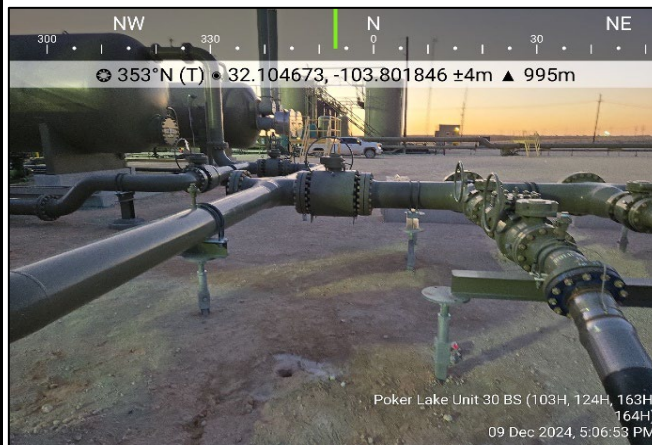
XTO Energy, Inc.

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Photograph: 5                      Date: 12/3/2024  
Description: Final excavation extent.  
View: Northeast



Photograph: 6                      Date: 12/9/2024  
Description: Core drill delineation, SS03.  
View: West





## APPENDIX C


### Lithologic Soil Sampling Logs


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								Sample Name: SS01		Date: 11/21/24	
								Site Name: Plu 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core drill	
Coordinates: 32.104453, -103.801979								Hole Diameter: 6 "		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. No correction factors included.											
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	SS01	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	464	0.0	N		1	1	CCHE	1'-2', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N	SS01A	2	2	TD	Total depth @ 2 feet bgs.			
						3					
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					


								Sample Name: SS02		Date: 12/9/2024	
								Site Name: Plu 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core drill	
Coordinates: 32.104457, -103.801886								Hole Diameter: 6 "		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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
D	2587	0.0	N	SS02	0.5		CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	582	0.0	N		1	1					
							CCHE	1'-4', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	2469	0.3	N		2	2					
D	515	0.0	N		3	3					
D	313	0.0	N	SS02A	4	4					
							TD	Total depth @ 4 feet bgs.			
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					


								Sample Name: SS03		Date: 11/21/24	
								Site Name: Plu 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core drill	
Coordinates: 32.105392, -103.801864								Hole Diameter: 6 "		Total Depth: 1	
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. No correction factors included.											
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	37251	0.0	N	SS03	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS03A	1	1	TD	Total depth @ 1 feet bgs.			
						2					
						3					
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					


								Sample Name: SS04		Date: 11/22/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Backhoe	
Coordinates: 32.104489, -103.801762								Hole Diameter: 2'		Total Depth: 3'	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	313	0.0	N	SS04	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	274.4	266.2	N		1	1	CCHE	1'-3', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	274.4	52.6	N		2	2					
D	<168	2.5	N	SS04A	3	3	TD	Total depth @ 3 feet bgs.			
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					


								Sample Name: SS06		Date: 12/9/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core Drill	
Coordinates: 32.104402, -103.801730								Hole Diameter: 2"		Total Depth: 3'	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	162	0.0	N	SS06	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS06A	1	1	CCHE	1'-3', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N		2	2					
D	162	0.0	N	SS06B	3	3					
							TD	Total depth @ 3 feet bgs.			
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					



								Sample Name: SS07		Date: 12/9/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core Drill	
Coordinates: 32.104291, -103.801774								Hole Diameter: 2"		Total Depth: 3'	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	162	0.0	N	SS07	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS07A	1	1	CCHE	1'-3', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N		2	2					
D	162	0.0	N	SS07B	3	3	TD	Total depth @ 3 feet bgs.			
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS08		Date: 12/9/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Core Drill	
Coordinates: 32.104302, -103.801974								Hole Diameter: 2"		Total Depth: 3'	
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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	162	0.0	N	SS08	0.5	0	CCHE (fill)	0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS08A	1	1	CCHE	1'-3', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N		2	2					
D	162	0.0	N	SS08B	3	3					
							TD	Total depth @ 3 feet bgs.			
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS09		Date: 12/3/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Backhoe	
Coordinates: 32.104435, -103.802070								Hole Diameter: 2"		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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS09	0.5		CCHE (fill)				
D	162	0.0	N	SS09A	1	1					
							CCHE	1'-5', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N		2	2					
D	162	0.0	N	SS09B	3	3					
D			N		4	4					
D			N	SS09C	5	5					
							TD	Total depth @ 5 feet bgs.			
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS11		Date: 12/3/2024	
								Site Name: PLU 29 Big Sinks West Battery			
								Incident Number: nAPP2425727179			
								Job Number: 03C1558538			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Jesse Dorman		Method: Backhoe	
Coordinates: 32.105392, -103.801850								Hole Diameter: 2"		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. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0		0-1', CALICHE, dry, tan, abundant gravel, well graded, some surficial staining, no odor, fill.			
D	162	0.0	N	SS11	0.5						
D	162	0.0	N	SS11A	1	1					
							CCHE	1'-5', CALICHE, dry, tan, some sand, well graded, no stain, no odor, indurated.			
D	162	0.0	N		2	2					
D	162	0.0	N	SS11B	3	3					
D	162	0.0	N		4	4					
D	162	0.0	N	SS11C	5	5					
							TD	Total depth @ 5 feet bgs.			
						6					
						7					
						8					
						9					
						10					
						11					
						12					



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

October 03, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/01/24 13:20.

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](http://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 with a large, stylized 'C' and 'K'.

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: 10/01/2024  
Reported: 10/03/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: O3C1558533  
Project Location: XTO

Sampling Date: 09/27/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 01 0.5' (H245947-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/03/2024	ND	2.11	106	2.00	3.66	
Toluene*	1.53	0.100	10/03/2024	ND	2.31	115	2.00	9.39	GC-NC1
Ethylbenzene*	0.993	0.100	10/03/2024	ND	2.50	125	2.00	11.1	
Total Xylenes*	22.5	0.300	10/03/2024	ND	7.56	126	6.00	11.6	
Total BTEX	25.1	0.600	10/03/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	21400	16.0	10/02/2024	ND	416	104	400	3.77		

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	752	50.0	10/03/2024	ND	214	107	200	11.1	
DRO >C10-C28*	13900	50.0	10/03/2024	ND	212	106	200	10.2	
EXT DRO >C28-C36	1660	50.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 63.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 261 % 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: 10/01/2024  
Reported: 10/03/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: O3C1558533  
Project Location: XTO

Sampling Date: 09/27/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 02 0.5' (H245947-02)**

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	10/02/2024	ND	2.11	106	2.00	3.66		
Toluene*	<0.050	0.050	10/02/2024	ND	2.31	115	2.00	9.39		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.50	125	2.00	11.1		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	7.56	126	6.00	11.6		
Total BTEX	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	19200	16.0	10/02/2024	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	10/02/2024	ND	214	107	200	11.1	
DRO >C10-C28*	1140	10.0	10/02/2024	ND	212	106	200	10.2	
EXT DRO >C28-C36	148	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 10/01/2024  
 Reported: 10/03/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: O3C1558533  
 Project Location: XTO

Sampling Date: 09/27/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SS 03 0.5' (H245947-03)**

BTEX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2024	ND	2.11	106	2.00	3.66	
<b>Toluene*</b>	<b>1.02</b>	0.050	10/03/2024	ND	2.31	115	2.00	9.39	GC-NC1
<b>Ethylbenzene*</b>	<b>1.16</b>	0.050	10/03/2024	ND	2.50	125	2.00	11.1	
<b>Total Xylenes*</b>	<b>24.0</b>	0.150	10/03/2024	ND	7.56	126	6.00	11.6	
<b>Total BTEX</b>	<b>26.2</b>	0.300	10/03/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 160 % 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
<b>Chloride</b>	<b>32800</b>	16.0	10/02/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>910</b>	50.0	10/03/2024	ND	214	107	200	11.1	
<b>DRO &gt;C10-C28*</b>	<b>22200</b>	50.0	10/03/2024	ND	212	106	200	10.2	
<b>EXT DRO &gt;C28-C36</b>	<b>2800</b>	50.0	10/03/2024	ND					

Surrogate: 1-Chlorooctane 207 % 48.2-134

Surrogate: 1-Chlorooctadecane 481 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/01/2024  
Reported: 10/03/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: O3C1558533  
Project Location: XTO

Sampling Date: 09/27/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 04 0.5' (H245947-04)**

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	10/02/2024	ND	2.11	106	2.00	3.66		
Toluene*	<0.050	0.050	10/02/2024	ND	2.31	115	2.00	9.39		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.50	125	2.00	11.1		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	7.56	126	6.00	11.6		
Total BTEX	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	944	16.0	10/02/2024	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	10/02/2024	ND	214	107	200	11.1	
DRO >C10-C28*	10.2	10.0	10/02/2024	ND	212	106	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 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: 10/01/2024  
Reported: 10/03/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: O3C1558533  
Project Location: XTO

Sampling Date: 09/27/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 05 0.5' (H245947-05)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2024	ND	2.11	106	2.00	3.66	
Toluene*	<b>0.223</b>	0.050	10/03/2024	ND	2.31	115	2.00	9.39	GC-NC1
Ethylbenzene*	<b>0.234</b>	0.050	10/03/2024	ND	2.50	125	2.00	11.1	
Total Xylenes*	<b>4.08</b>	0.150	10/03/2024	ND	7.56	126	6.00	11.6	
Total BTEX	<b>4.54</b>	0.300	10/03/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 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	<b>31200</b>	16.0	10/02/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>183</b>	10.0	10/02/2024	ND	214	107	200	11.1	
DRO >C10-C28*	<b>9170</b>	10.0	10/02/2024	ND	212	106	200	10.2	
EXT DRO >C28-C36	<b>1200</b>	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 142 % 48.2-134

Surrogate: 1-Chlorooctadecane 200 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST																								
Project Manager: Ben Bell		Company: XTO Energy																										
Address: 3122 National Parks Hwy		Attn: Amy Ruth																										
City: Carlsbad		Address: 3104 E Green St																										
State: NM		City: Carlsbad																										
Zip: 88220		State: NM																										
Phone #: 989-854-0852		Fax #: 989-854-0852																										
Project #: 24-24835838		Project Owner:																										
Project Name: PLU 29 BS West Battery		State: NM																										
Project Location:		Zip: 88220																										
Sampler Name: Sherie Brooks		Phone #: 575-887-7324																										
Fax #:																												
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
1215947	SS01	0.5'		61			X							12:19	12:24	X	X	X										
	SS02													12:24	12:24													
	SS03													12:24	12:24													
	SS04													12:24	12:24													
	SS05													12:31	12:31													
	SS06																											
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	SS100																											



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

November 26, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/25/24 11:05.

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](http://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:	11/25/2024	Sampling Date:	11/21/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	PLU 29 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558538	Sample Received By:	Tamara Oldaker
Project Location:	XTO - 32.104448-103.801842		

**Sample ID: SS 04 A 3' (H247207-01)**

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	11/25/2024	ND	2.03	101	2.00	4.53		
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46		
Total BTEX	<0.300	0.300	11/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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\*=Accredited Analyte

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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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06 .5' (H247207-02)**

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	11/25/2024	ND	2.03	101	2.00	4.53		
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46		
Total BTEX	<0.300	0.300	11/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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\*=Accredited Analyte

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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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07 .5' (H247207-03)**

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	11/25/2024	ND	2.03	101	2.00	4.53		
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46		
Total BTEX	<0.300	0.300	11/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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\*=Accredited Analyte

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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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 08 .5' (H247207-04)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65		
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2024	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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 09 .5' (H247207-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.96	98.0	2.00	6.65		
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	96.0	16.0	11/26/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/26/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 10 .5' (H247207-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	1.96	98.0	2.00	6.65	
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66	
Total BTX	<0.300	0.300	11/25/2024	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	240	16.0	11/26/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 11 .5' (H247207-07)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65		
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	32.0	16.0	11/26/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

**Analytical Results For:**

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

Received: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 01 4' (H247207-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.96	98.0	2.00	6.65		
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	112	16.0	11/26/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 02 4' (H247207-09)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65	
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66	
Total BTEX	<0.300	0.300	11/25/2024	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	496	16.0	11/26/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 03 4' (H247207-10)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65		
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66		
Total BTEX	<0.300	0.300	11/25/2024	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	832	16.0	11/26/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	14.0	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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



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**Analytical Results For:**

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

Received: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 01 0-4' (H247207-11)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65	
<b>Toluene*</b>	<b>0.169</b>	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583	GC-NC1
<b>Ethylbenzene*</b>	<b>0.133</b>	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870	GC-NC1
<b>Total Xylenes*</b>	<b>2.74</b>	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66	
<b>Total BTEX</b>	<b>3.04</b>	0.300	11/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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
<b>Chloride</b>	<b>384</b>	16.0	11/26/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>74.7</b>	10.0	11/25/2024	ND	195	97.5	200	0.244	
<b>DRO &gt;C10-C28*</b>	<b>476</b>	10.0	11/25/2024	ND	190	95.0	200	0.288	
<b>EXT DRO &gt;C28-C36</b>	<b>31.3</b>	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 11/25/2024  
Reported: 11/26/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO - 32.104448-103.801842

Sampling Date: 11/22/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 02 0-4' (H247207-12)**

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	11/25/2024	ND	1.96	98.0	2.00	6.65	
Toluene*	<0.050	0.050	11/25/2024	ND	1.84	92.0	2.00	0.583	
Ethylbenzene*	0.052	0.050	11/25/2024	ND	1.90	95.0	2.00	0.870	GC-NC1
Total Xylenes*	0.956	0.150	11/25/2024	ND	5.73	95.5	6.00	1.66	
Total BTEX	1.03	0.300	11/25/2024	ND					GC-NC1

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	2120	16.0	11/26/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.0	10.0	11/25/2024	ND	195	97.5	200	0.244	
DRO >C10-C28*	984	10.0	11/25/2024	ND	190	95.0	200	0.288	
EXT DRO >C28-C36	109	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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\*=Accredited Analyte

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



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Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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

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		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Ben Beill		Company: XTO Energy Inc.																					
Address: 3122 National Parks Hwy		Attn: Colton Brown																					
City: Carlsbad		Address: 3104 E. Green St.																					
Phone #: 989-854-0852		City: Carlsbad																					
Fax #: 989-854-0852		State: NM Zip: 88220																					
Project #: 03C1558538		Project Owner: XTO																					
Project Name: PLU 29 Big Sinks West Battery		State: NM Zip: 88220																					
Project Location: 32.104448, -103.801842		Phone #:																					
Fax #:																							
Sampler Name: Jesse Dorman		FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		BTEX		TPH		CHLORIDE			
H247207		5504A		3'		G		1		GROUNDWATER		✓		DATE		TIME							
1		5506		0.5'		G		1		WASTEWATER				11/21/24		1440							
2		5507				G		1		SOIL				11/21/24		1230							
3		5508				G		1		OIL				11/21/24		1247							
4		5509				G		1		SLUDGE				11/21/24		1240							
5		5510				G		1		OTHER :				11/21/24		1245							
6		5511				G		1		ACID/BASE:				11/21/24		1205							
7		5501				G		1		ICE / COOL				11/21/24		1210							
8		5502				G		1		OTHER :				11/21/24		1235							
9		5503				G		1		✓				11/21/24		1440							
10		5503				G		1						11/21/24		1445							
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By:		Date: 11-25-24		Received By:		Date: 11-25-24		Time: 1105		CHECKED BY: (Initials)		Turnaround Time: 24hr		Standard Rush		Bacteria (only) Sample Condition		Thermometer ID: 2440		Corrected Temp. °C			
Relinquished By:		Date:		Received By:		Date:		Time:		CHECKED BY:		Turnaround Time:		Standard		Bacteria (only) Sample Condition		Thermometer ID:		Corrected Temp. °C			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		Cool		Intact		Yes		No		No		No		No		No			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool		Intact		Yes		No		No		No		No		No		No			



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Ensolum, LLC

[illegible]



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

---

December 05, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 10:30.

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](http://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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	12/04/2024	Sampling Date:	12/03/2024
Reported:	12/05/2024	Sampling Type:	Soil
Project Name:	PLU 29 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558538	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.104448-103.801842		

**Sample ID: SW 01 0-4' (H247372-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.11	105	2.00	5.89	
Toluene*	<0.050	0.050	12/04/2024	ND	2.03	102	2.00	6.13	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.05	102	2.00	6.04	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.12	102	6.00	6.14	
Total BTX	<0.300	0.300	12/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	231	116	200	0.517	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	213	107	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 04 4' (H247372-02)**

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	12/04/2024	ND	2.11	105	2.00	5.89		
Toluene*	<0.050	0.050	12/04/2024	ND	2.03	102	2.00	6.13		
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.05	102	2.00	6.04		
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.12	102	6.00	6.14		
Total BTEX	<0.300	0.300	12/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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

S-05	The surrogate recovery is outside of lab established statistical control 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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

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 Beilli

Address: 3122 National Parks Hwy

City: Midland State: TX Zip:

Phone #: 989-854-0852

Project #: 03C1558538

Project Name: PLU 29 Big Sinks West Battery

Project Location: 32.104448, -103.801842

Sampler Name: Mario Sarkis

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy

Attn: Colton Brown

Address: 3104 E. Green St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-988-2390

Email:

Matrix

Preserv. Sampling

Lab I.D. Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

Chloride

Standard

Backtitra (only)

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

ALL CLAIMS: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise, 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 interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Verbal Result: ☐ Yes ☐ No Add'l Phone #:  
All Results are emailed. Please provide Email address:  
bbelli@ensolum.com / kthompson@ensolum.com / msarkis@ensolum.com  
REMARKS: Incident #: nAPP2425727179  
Cost Center: 1818831001

Relinquished By:

Time: 12/14/24

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Yes

No

Yes

No

Yes

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

Time: 0:12

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Yes

No

Yes

No

Yes

FORM-006 R 3.2 10/07/21

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



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

December 05, 2024

BEN BELILL  
ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND, TX 79705

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 10:30.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 11 A 1' (H247373-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2024	ND	2.11	105	2.00	5.89	
Toluene*	<0.050	0.050	12/04/2024	ND	2.03	102	2.00	6.13	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.05	102	2.00	6.04	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.12	102	6.00	6.14	
Total BTX	<0.300	0.300	12/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 11 B 3' (H247373-02)**

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	12/04/2024	ND	2.11	105	2.00	5.89		
Toluene*	<0.050	0.050	12/04/2024	ND	2.03	102	2.00	6.13		
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.05	102	2.00	6.04		
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.12	102	6.00	6.14		
Total BTEX	<0.300	0.300	12/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 11 C 5' (H247373-03)**

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	12/04/2024	ND	2.11	105	2.00	5.89		
Toluene*	<0.050	0.050	12/04/2024	ND	2.03	102	2.00	6.13		
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.05	102	2.00	6.04		
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.12	102	6.00	6.14		
Total BTEX	<0.300	0.300	12/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





---

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

---

### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control 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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

P.O. #:

Project Manager: Ben Bellill

Company: XTO Energy

Address: 3122 National Parks Hwy

Attn: Colton Brown

City: Midland State: TX Zip:

Address: 3104 E. Green St.

Phone #: 989-854-0852

Email: bbellill@ensolum.com

City: Carlsbad

Project #: 03C1558538

Project Owner:

State: NM Zip: 88220

Project Name: PLU 29 Big Sinks West Battery

Phone #: 575-988-2390

Project Location: 32.104448, -103.801842

Email:

Sample Name: Mario Sarkis

FOR LAB USE ONLY

MATRIX PRESERV. SAMPLING

Lab I.D. Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

Chloride

PLEASE NOTE: Liability and Damages. Cardinal's liability and claims are limited to the amount paid by the client for the analysis. All claims must be filed within 30 days after completion of the applicable service. All claims must be filed within 30 days after completion of the applicable service. All claims must be filed within 30 days after completion of the applicable service.

Relinquished By:

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

Relinquished By:

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

Date: 12/14/24

Received By:

Time: 10:30

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

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool Intact  
☒ Yes ☐ No

CHECKED BY:  
(Initials)

Turnaround Time: Standard ☐ Rush ☒

Thermometer ID: 11341034-11

Correction Factor: 0.0°C

Bacteria (only) Sample Condition  
Cool Intact  
☒ Yes ☐ No

Observed Temp. °C  
Corrected Temp. °C

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No



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

---

December 05, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 10:30.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 09 A 1' (H247374-01)**

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	12/04/2024	ND	2.20	110	2.00	0.106	
Toluene*	<0.050	0.050	12/04/2024	ND	2.28	114	2.00	0.470	
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.23	112	2.00	0.491	
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.97	116	6.00	0.215	
Total BTEX	<0.300	0.300	12/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 09 B 3' (H247374-02)**

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	12/04/2024	ND	2.20	110	2.00	0.106		
Toluene*	<0.050	0.050	12/04/2024	ND	2.28	114	2.00	0.470		
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.23	112	2.00	0.491		
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.97	116	6.00	0.215		
Total BTEX	<0.300	0.300	12/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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, LLC  
 BEN BELILL  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 12/04/2024  
 Reported: 12/05/2024  
 Project Name: PLU 29 BIG SINKS WEST BATTERY  
 Project Number: 03C1558538  
 Project Location: XTO 32.104448-103.801842

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 09 C 5' (H247374-03)**

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	12/04/2024	ND	2.20	110	2.00	0.106		
Toluene*	<0.050	0.050	12/04/2024	ND	2.28	114	2.00	0.470		
Ethylbenzene*	<0.050	0.050	12/04/2024	ND	2.23	112	2.00	0.491		
Total Xylenes*	<0.150	0.150	12/04/2024	ND	6.97	116	6.00	0.215		
Total BTEX	<0.300	0.300	12/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2024	ND	213	107	200	5.36	
DRO >C10-C28*	<10.0	10.0	12/04/2024	ND	211	105	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	12/04/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- S-05            The surrogate recovery is outside of lab established statistical control 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>										
Project Manager: Ben Beill		P.O. #:												
Address: 3122 National Parks Hwy		Company: XTO Energy												
City: Midland State: TX Zip:		Attn: Colton Brown												
Phone #: 989-854-0852 Email: bbeill@ensolum.com		Address: 3104 E. Green St.												
Project #: 03C1568538 Project Owner:		City: Carlsbad												
Project Name: PLU 29 Big Sinks West Battery		State: NM Zip: 88220												
Project Location: 32.104448, -103.801842		Phone #: 575-988-2390												
Sampler Name: Mario Sarkis		Email:												
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
1547874	SS09A	1	G 1		X									
1	SS09B	3	G 1		X									
3	SS09C	5	G 1		X									
<div>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising under this contract or test, shall be limited to the amount paid by the client for the analysis.</div> <div>All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service.</div> <div>In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</div>														
Relinquished By:		Date: 12/14/24	Received By:											
Time: 10:30		Date: 12/14/24	Received By:											
Relinquished By:		Time:		Received By:										
Delivered By: (Circle One)		Observed Temp. °C	Corrected Temp. °C	Sample Condition		CHECKED BY: (Initials)								
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>										
				No <input type="checkbox"/> No <input type="checkbox"/>										
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Thermometer ID #113		Correction Factor -0.0°C		Add'l Phone #:								

FORM-006 R 3.2 10/07/21

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



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

---

December 11, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/10/24 14:00.

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](http://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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 03A 1' (H247472-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2024	ND	1.63	81.7	2.00	16.0	
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380	
Total BTX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	96.0	16.0	12/11/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	236	118	200	1.40	
DRO >C10-C28*	22.5	10.0	12/10/2024	ND	233	117	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 02A 4' (H247472-02)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0		
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380		
Total BTEx	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	208	16.0	12/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	236	118	200	1.40	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	233	117	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 01A 2' (H247472-03)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0	
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	208	16.0	12/11/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	236	118	200	1.40	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	233	117	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06A 1' (H247472-04)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0		
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380		
Total BTEX	<0.300	0.300	12/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	236	118	200	1.40	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	233	117	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/09/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 06B 3' (H247472-05)**

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	12/10/2024	ND	2.26	113	2.00	6.91		
Toluene*	<0.050	0.050	12/10/2024	ND	2.16	108	2.00	5.61		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.15	108	2.00	4.27		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.44	107	6.00	4.38		
Total BTEX	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	16.0	16.0	12/11/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	236	118	200	1.40	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	233	117	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FOR LAB USE ONLY

Phone #:

Phone #:



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---

December 11, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 29 BIG SINKS WEST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/10/24 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	12/10/2024	Sampling Date:	12/10/2024
Reported:	12/11/2024	Sampling Type:	Soil
Project Name:	PLU 29 BIG SINKS WEST BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558538	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.104448-103.801842		

**Sample ID: SS 08A 1' (H247482-01)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0	
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/11/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	0.482	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	211	105	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/10/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 08B 3' (H247482-02)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0		
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380		
Total BTEX	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	12/11/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	0.482	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	211	105	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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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: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/10/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07A 1' (H247482-03)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0	
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	0.482	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	211	105	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/10/2024  
Reported: 12/11/2024  
Project Name: PLU 29 BIG SINKS WEST BATTERY  
Project Number: 03C1558538  
Project Location: XTO 32.104448-103.801842

Sampling Date: 12/10/2024  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SS 07B 3' (H247482-04)**

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	12/10/2024	ND	1.63	81.7	2.00	16.0	
Toluene*	<0.050	0.050	12/10/2024	ND	1.74	86.9	2.00	3.19	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	1.74	87.1	2.00	0.916	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	5.21	86.9	6.00	0.380	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/11/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	216	108	200	0.482	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	211	105	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- 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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\_\_\_\_\_  
Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 410946

QUESTIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  410946
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2425727179
Incident Name	NAPP2425727179 PLU 29 BS WEST BATTERY @ 30-015-45919
Incident Type	Other
Incident Status	Deferral Request Received
Incident Well	[30-015-45919] POKER LAKE UNIT 29 BS #703H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 29 BS WEST BATTERY
Date Release Discovered	09/12/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
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	Cause: Corrosion   Separator   Crude Oil   Released: 15 BBL   Recovered: 7 BBL   Lost: 8 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Separator   Produced Water   Released: 15 BBL   Recovered: 7 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 410946

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  410946
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 12/12/2024
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QUESTIONS, Page 3

Action 410946

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 410946
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>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.</i>	
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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	32800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	25900
GRO+DRO (EPA SW-846 Method 8015M)	23100
BTEX (EPA SW-846 Method 8021B or 8260B)	26.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	09/27/2024
On what date will (or did) the final sampling or liner inspection occur	12/09/2024
On what date will (or was) the remediation complete(d)	12/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	3964
What is the estimated volume (in cubic yards) that will be reclaimed	480
What is the estimated surface area (in square feet) that will be remediated	671
What is the estimated volume (in cubic yards) that will be remediated	100
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 410946

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  410946
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	OWL LANDFILL JAL [JEG1635837366]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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.
<i>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>	
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: 12/12/2024
<i>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.</i>	

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Action 410946

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  410946
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	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	"process piping, production equipment, pipe/equipment supports. Removing would result in undermining active piping and production equipment causing an additional release of fluids. "
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3293
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	380
<i>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.</i>	
Enter the facility ID (f#) on which this deferral should be granted	PLU 29 BIG SINKS WEST BTY [fAPP2126356155]
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
<i>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>	
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: 12/12/2024

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QUESTIONS, Page 6

Action 410946

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 410946
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	408614
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/13/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

**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 410946

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  410946
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	3/17/2025