



April 14, 2025

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Corral Canyon 8 Satellite  
Incident Number nAPP2501553916  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document site assessment, delineation, and excavation activities completed to date and propose engineering and karst investigations to be conducted at the Corral Canyon 8 Satellite (Site). The purpose of the remedial activities completed was to address impacted soil resulting from a release of produced water at the Site. The following *Work Plan* proposes an engineering and karst investigation to confirm the Closure Criteria at the Site.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit J and Unit K, Section 8, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.142751°, -104.006738°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On January 14, 2025, corrosion on a produced water dump valve resulted in the release of 33 barrels (bbls) of produced water onto the pad surface and around active production equipment and surface pipelines. A vacuum truck was dispatched to the Site to recover free-standing fluids; 5 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and Initial C-141 Application (C-141) on January 15, 2025, and the release was assigned Incident Number nAPP2501553916.

**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 and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On June 2, 1997, New Mexico Office of State Engineer (OSE) permitted well (C-2518) was advanced to a depth of 462 feet below ground surface (bgs) approximately 0.26 miles southeast of the Site. No moisture or groundwater was encountered during drilling activities. On April 19, 2021, an additional soil boring (C-4503) was drilled to a depth of 110 feet bgs approximately 0.80

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 8 Satellite

miles southeast of the Site. The soil boring was dry, which provides additional support that groundwater beneath the Site is greater than 100 feet bgs. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 780 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 underlain by unstable geology (medium potential karst designation area).

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): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On January 17, 2025, 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. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was collected during the site assessment and a photographic log is included in Appendix B.

On January 29, 2025, Ensolum personnel conducted delineation activities to evaluate impacts to soil. Eight discrete delineation soil samples (SS01 through SS08) were collected at a depth 0.5 feet bgs. Delineation soil samples SS01 through SS05 were collected outside of the release extent to define the lateral extent of the release. Soil samples SS06 through SS08 were collected within the release extent to confirm the presence or absence of impacted soil. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.

Ensolum personnel returned to the Site on March 25, 2025, to conduct additional delineation activities. One borehole was advanced via core drill in the vicinity of soil sample SS07 to a total depth of 2 feet bgs. One delineation soil sample (SS07B) was collected at the terminal depth of the borehole. Delineation soil samples SS09 and SS10 were collected to further assess the release extent. Field

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 8 Satellite

screening results and observations from the boreholes was logged on a lithologic/soil sampling log included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results from delineation soil samples SS01 through SS05, and SS10 indicated all COC concentrations were in compliance with Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results for delineation soil samples SS06 through SS09 indicated chloride concentrations exceeded Closure Criteria.

Delineation soil sample SS07B indicated all COC concentrations were compliant with Closure Criteria, successfully defining the vertical extent of the release. Based on visible staining in the release area and delineation soil sample laboratory analytical results, excavation of impacted soil was warranted.

## **SURFACE SCRAPING ACTIVITIES**

Following delineation activities, surface scraping of visibly stained soil was conducted in the release area to the maximum extent practicable (MEP). Surface scraping activities were performed utilizing hand tools, as no mechanical equipment could safely access nearly all of the release extent area due to the presence of active production equipment and surface pipelines. Because of the competency of the caliche well pad material, soil removal by hand tools was limited to a surface scrape. Surface scraping was conducted to the MEP in the vicinity of delineation soil samples SS07, SS08, and SS09. The surface scraping areas are presented in Figure 3.

## **EXCAVATION ACTIVITIES**

On February 26, 2025, Ensolum personnel returned to the Site to excavate impacted soil based on delineation soil sample laboratory analytical results. Excavation activities were performed utilizing heavy equipment to the MEP due to the proximity to active production equipment and surface pipelines. To direct excavation activities, soil was field screened for VOCs and chloride utilizing the same methods as described above. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 and FS02 were collected from the floor of the excavation from a depth of 1.5 feet bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from the ground surface to 1.5 feet bgs. One 5-point composite confirmation soil sample (CS01) was collected from a depth of 0.5 feet bgs in the area where surface scraping activities were completed. All confirmation soil sample locations are depicted on Figure 3.

The final excavation extent measured approximately 337 square feet. A total of approximately 20 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the Owl Landfill Facility in Jal, New Mexico. A copy of the disposal manifest is presented in Appendix D.

## **LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for confirmation soil samples FS01, FS02, and SW01 indicated all COC concentrations were in compliance with Closure Criteria. Laboratory analytical results for CS01 indicated TPH and chloride concentrations exceeded Closure Criteria. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix E.

XTO Energy, Inc.  
Remediation Work Plan  
Corral Canyon 8 Satellite

### PROPOSED REMEDIATION WORK PLAN

Based on soil sample laboratory analytical results, chloride and TPH impacted soil exists across an approximate 1,730 square-foot area and extends to an estimated maximum depth of 2 feet bgs. Approximately 130 cubic yards of impacted soil remain in place immediately adjacent to production equipment, concrete poured pads, surface pipelines, and multiple electrical lines.

Due to the recent re-evaluation of remediation standards regarding karst potential zones by the NMOCD, and approval of deferrals in these areas not being granted, as medium karst is being classified as unstable, XTO proposes to complete the following:

- A desktop survey, arial/pedestrian survey, and a geophysical survey will be performed on the Site to determine if karst features are present.
- A certified civil engineer will evaluate the soil type and provide the minimum distance the excavation needs to be from the equipment and how deep the excavation can be.

XTO will proceed with any excavation and soil sampling activities, warranted by the inspection activities, and will submit a Closure Report or a Deferral Request within 90 days of the date of approval of this Work Plan by the NMOCD.

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

Sincerely,  
**Ensolum, LLC**



Jeremy Reich  
Project Geologist



Daniel R. Moir, PG (licensed in WY & TX)  
Senior Managing Geologist

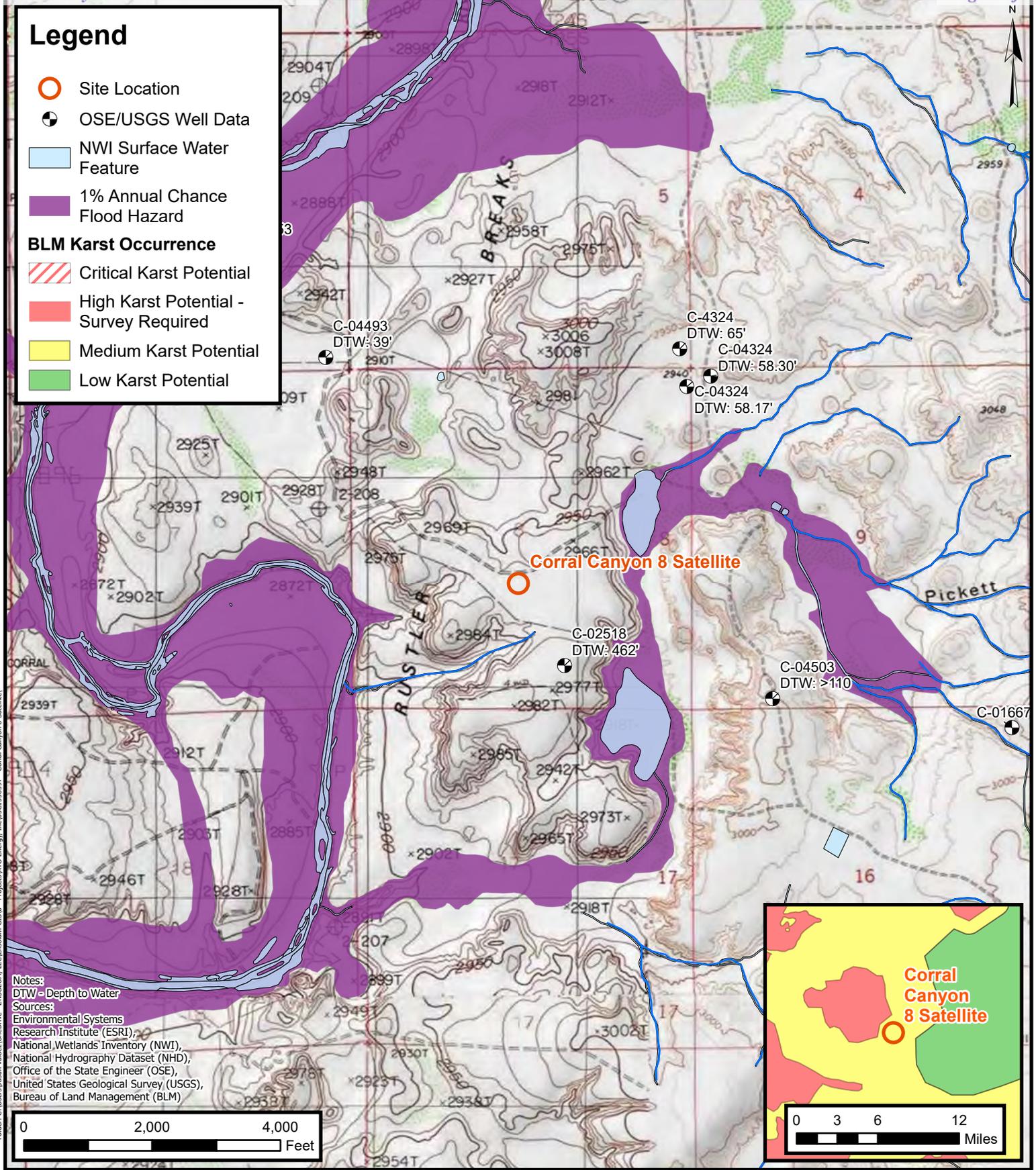
cc: Robert Woodall, XTO  
Kaylan Dirkx, XTO  
BLM

Appendices:

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



FIGURES

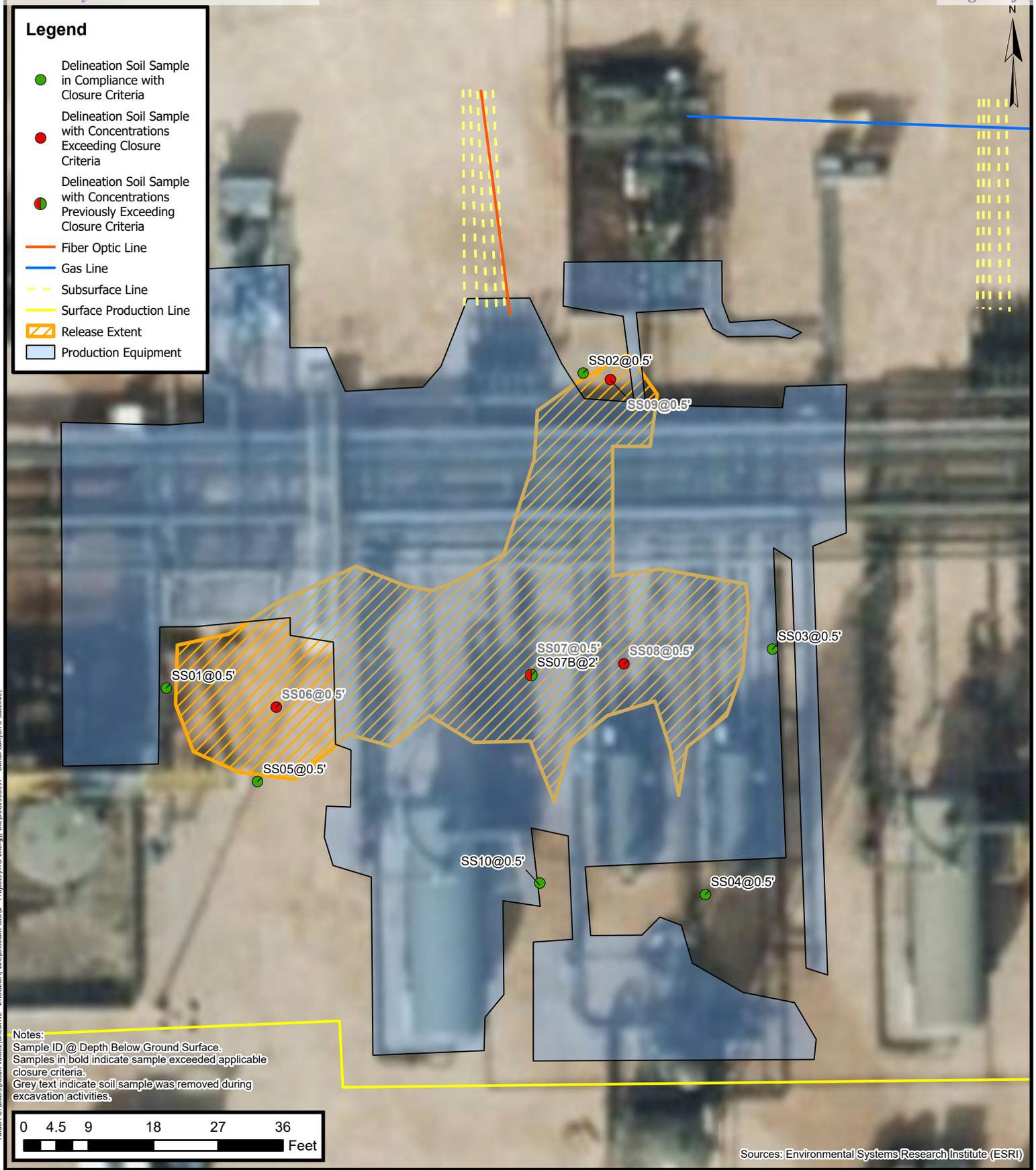


Folder: C:\Users\jstain\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\XTO Energy, Inc\DCI\159859 - Corral Canyon 8 Satellite



**Site Receptor Map**  
 XTO Energy, Inc  
 Corral Canyon 8 Satellite  
 Incident Number: nAPP2501553916  
 Unit J & K-08-25S-29E  
 Eddy County, New Mexico

**FIGURE**  
**1**



## Delineation Soil Sample Locations

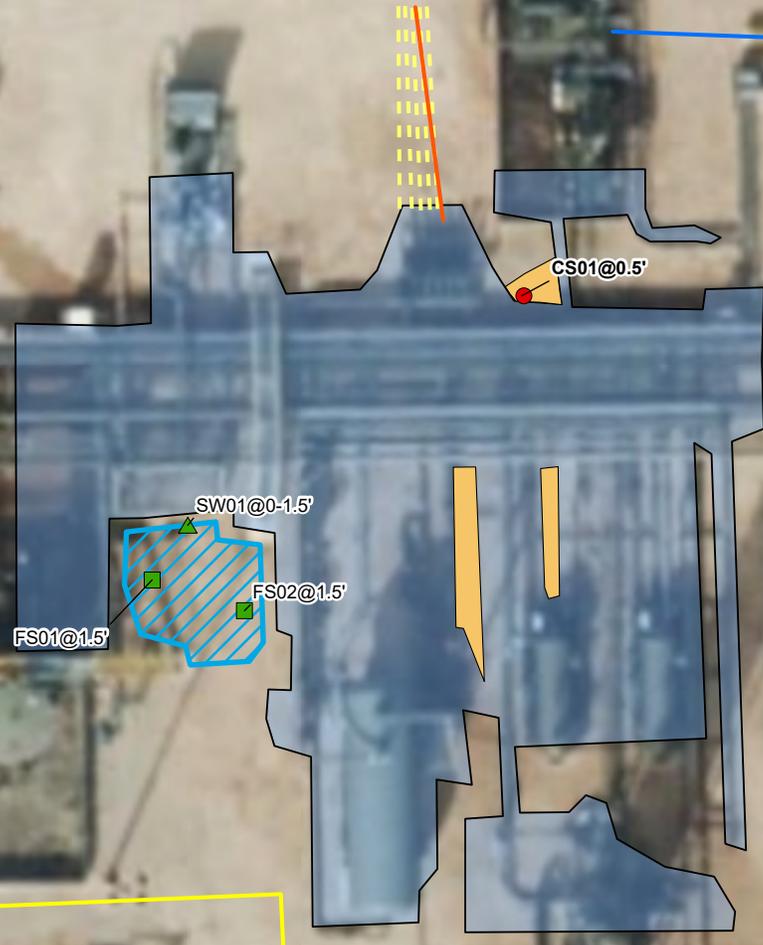
XTO Energy, Inc  
 Corral Canyon 8 Satellite  
 Incident Number: nAPP2501553916  
 Unit J & K-08-25S-29E  
 Eddy County, New Mexico

**FIGURE**

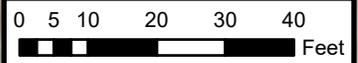
**2**

### Legend

- Confirmation Soil Sample with Concentrations Exceeding Closure Criteria
- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Fiber Optic Line
- Gas Line
- Subsurface Line
- Surface Production Line
- Excavation Extent
- Production Equipment
- Surface Scrape



Notes:  
 Sample ID @ Depth Below Ground/Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Location

XTO Energy, Inc  
 Corral Canyon 8 Satellite  
 Incident Number: nAPP2501553916  
 Unit J & K-08-25S-29E  
 Eddy County, New Mexico

**FIGURE**  
**3**





TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
Corral Canyon 8 Satellite  
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)
<b>NMOCDC Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS02	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SS04	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS05	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS06	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>2,840</b>
SS07	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>7,440</b>
SS07B	03/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
SS08	01/29/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>7,120</b>
SS09	03/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>6,400</b>
SS10	03/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
<b>Confirmation Soil Samples</b>										
FS01	02/26/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS02	02/26/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW01	02/26/2025	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS01	03/25/2025	0.5	<0.050	<0.300	<10.0	1,110	951	1,110	<b>2,061</b>	<b>7,600</b>

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCDC 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

---

STATE ENGINEER OFFICE  
WELL RECORD

465788

Revised June 1972

Section 1. GENERAL INFORMATION

OFFICE OF  
STATE ENGINEER  
SANTA FE, NEW MEXICO

(A) Owner of well Penwell Energy  
Street or Post Office Address c/o Glenn's Water Well Service  
City and State P.O. Box 692 Tatum, NM 88267

Owner's Well No. 99  
FEB 1 PM 1 29

Well was drilled under Permit No. C-2518 and is located in the:

- a. 1/4 1/4 SW 1/4 SE 1/4 of Section 8 Township 25 Range 29 N.M.P.M.
- b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_
- c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ County.
- d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
the \_\_\_\_\_ Grant.

(B) Drilling Contractor Glenn's Water Well Service License No. WD -421  
Address P.O. Box 692 Tatum, NM 88267

Drilling Began 6-2-97 Completed 6-2-97 Type tools rotary Size of hole 7 7/8 in.  
Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 462 ft.  
Completed well is  shallow  artesian. Depth to water upon completion of well \_\_\_\_\_ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			dry hole	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
			none					

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor well was back filled with cutting  
Address and drilling mud  
Plugging Method \_\_\_\_\_  
Date Well Plugged \_\_\_\_\_  
Plugging approved by: \_\_\_\_\_

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0	460	cutting & mud
2			
3			
4			

State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received 06-10-97

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. C-2518

Use OWD  
"Dry Hole"

Location No. 25S.29E.8.43412





# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) <b>POD1 (BH-01)</b>		WELL TAG ID NO. n/a		OSE FILE NO(S). <b>C-4503</b>			
	WELL OWNER NAME(S) <b>XTO Energy (Kyle Littrell)</b>				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS <b>6401 Holiday Hill Dr.</b>				CITY <b>Midland</b>	STATE <b>TX</b>	ZIP <b>79707</b>	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <b>32</b>		MINUTES <b>8</b>	SECONDS <b>15.74</b>	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE <b>103</b>		<b>59</b>	<b>38.34</b>	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>SWSW S9 T25S R29E</b>								
2. DRILLING & CASING INFORMATION	LICENSE NO. <b>1249</b>		NAME OF LICENSED DRILLER <b>Jackie D. Atkins</b>			NAME OF WELL DRILLING COMPANY <b>Atkins Engineering Associates, Inc.</b>		
	DRILLING STARTED <b>04/19/2021</b>		DRILLING ENDED <b>04/19/2021</b>	DEPTH OF COMPLETED WELL (FT) <b>temporary well material</b>		BORE HOLE DEPTH (FT) <b>110</b>	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: <b>Hollow Stem Auger</b>							
	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						
	<b>0</b>	<b>110</b>	<b>±6.5</b>	<b>Boring- HSA</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
OSE DJI MAY 5 2021 PM 4:04								
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	<b>C-4503</b>	POD NO.	<b>1</b>	TRN NO.	<b>682792</b>
LOCATION	<b>Expl</b>	<b>25S.29E.9.334</b>	WELL TAG ID NO.	PAGE 1 OF 2	





## APPENDIX B

### Photographic Log

---



**Photographic Log**  
XTO Energy, Inc  
Corral Canyon 8 Satellite  
nAPP2501553916



Photograph: 1                      Date: 1/29/2025  
Description: Hand excavation activities  
View: Direct

Photograph: 2                      Date: 1/29/2025  
Description: Hand excavation activities  
View: Direct



Photograph: 3                      Date: 2/25/2025  
Description: Hand excavation  
View: activities West

Photograph: 4                      Date: 2/25/2025  
Description: Excavation activities  
View: South



## APPENDIX C

### Lithologic Soil Sampling Logs

---

					Sample Name: SS07		Date: 3/25/25	
					Site Name: Corral Canyon 8 Satellite			
					Incident Number: nAPP2501553916			
					Job Number: 03C1558597			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: JD		Method: Core Drill	
Coordinates: 32.142751, -104.006738					Hole Diameter: 2"		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. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1982	4.1	Y	SS07	0.5	0	CCHE	(0-2') CALICHE, Tan, sand - gravel, sub-angular, poorly sorted, slight odor
D	533.6	1.5	Y	SS0A	1	1		
D	N/A	2	N	SS07B	2	2		
Total Depth @ 2'								



APPENDIX D

Waste Manifest



**OWL Landfill Services, LLC**  
 DBA: Northern Delaware Basin Landfill  
 3889 Maple Ave. Suite 300  
 Dallas, TX 75219  
 505.231.1212  
 ar@ndblandfill.com

COMPANY MAN: Kent Ratz  
 (Authorized Agent's Printed Name and Title)  
 SIGNATURE: \_\_\_\_\_  
 COMPANY MAN EMAIL: \_\_\_\_\_  
 COMPANY MAN PHONE: \_\_\_\_\_

**MANIFEST #**  
**0385681**

**Part 1 - Generator**

COMPANY NAME: XTO  
 LEASE: Coral Canyon 8 Sat Battery  
 AFE #: NAPP 2501553916 API: \_\_\_\_\_  
 RIG NAME: NAPP 2207552359 WELL #: \_\_\_\_\_  
 STATE & COUNTY ORIGIN: CC: 2125321001 Proj; #021558597

DATE: 2-26-25  
 PHONE: \_\_\_\_\_  
 QUANTITY: Belly 20  BBLs  YARDS

Waste Description (check only one box)		<input type="checkbox"/> RCRA Exempt	<input type="checkbox"/> RCRA Non-Exempt
<input type="checkbox"/> Water Based Cuttings (DRY)	<input type="checkbox"/> Water Based Cuttings (WET)	<input checked="" type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input type="checkbox"/> Oil Based Cuttings (DRY)	<input type="checkbox"/> Oil Based Cuttings (WET)	<input type="checkbox"/> Injectable Fluids	<input type="checkbox"/> Non-Injectable Fluids
<input type="checkbox"/> Oil Base Mud	<input type="checkbox"/> Water Base Mud	<input type="checkbox"/> Muds w/Cement	<input type="checkbox"/> Tank Bottoms
<input type="checkbox"/> Rig Trash	<input type="checkbox"/> Pit Liners	Authorize Washout? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Other: _____			

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

SDS Information  RCRA Hazardous Waste Analysis  Process Knowledge  Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

**Part 2 - Transporter**

**TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT**

COMPANY NAME: Semtex Mex YARD #: \_\_\_\_\_ WHP #: \_\_\_\_\_ TRUCK #: 03  
 ADDRESS: \_\_\_\_\_ TICKET #: \_\_\_\_\_ ROLL OFF BIN#: \_\_\_\_\_ TRAILER #: 527  
 DATE RECEIVED: \_\_\_\_\_ TIME RECEIVED: \_\_\_\_\_  AM  PM  
 DISPATCHER NAME: \_\_\_\_\_ DISPATCHER PHONE #: \_\_\_\_\_

The following statement must be signed by the truck driver prior to unloading at disposal facility:  
**"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."**  
 DRIVER: Cornelia Rempel DRIVER'S SIGNATURE: \_\_\_\_\_  
 (Driver's Name Printed)  
**I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE**

**Part 3 - Disposal Facility**

**TO BE COMPLETED BY OWL LANDFILL EMPLOYEES**

FACILITY RECEIVED AT (Check One):  Northern Delaware Basin Landfill  
 2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 2-26-25 TIME IN: 4:14 AM / PM  
 TIME OUT: \_\_\_\_\_ AM / PM

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A  
 TCLP: PASS FAIL N/A  
 TOX: PASS FAIL N/A

WASHOUT BY: \_\_\_\_\_  
 WASHOUT: TIME IN: \_\_\_\_\_ TIME OUT: \_\_\_\_\_

Shake Out:  

1	2	3
N/A	N/A	N/A

 H<sub>2</sub>O S: \_\_\_\_\_ Gallon Test: \_\_\_\_\_

SERVICE NOTES:  
 This is to certify that: \_\_\_\_\_ Employee (Printed Name)  
 EMPLOYEE SIGNATURE: \_\_\_\_\_

has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.



## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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

---

February 06, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 8 SATELLITE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/03/25 12:00.

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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 01 0.5' (H250606-01)**

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	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	QM-07
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	QM-07
Total BTEX	<0.300	0.300	02/03/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 02 0.5' (H250606-02)**

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	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 03 0.5' (H250606-03)**

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	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 04 0.5' (H250606-04)**

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	02/03/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	02/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 05 0.5' (H250606-05)**

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	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 06 0.5' (H250606-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2025	ND	2.39	120	2.00	4.72	
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57	
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41	
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41	
Total BTEX	<0.300	0.300	02/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	02/03/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891	
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817	
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 07 0.5' (H250606-07)**

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	02/03/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7440	16.0	02/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/03/2025	Sampling Date:	01/29/2025
Reported:	02/06/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558483	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SS 08 0.5' (H250606-08)**

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	02/03/2025	ND	2.39	120	2.00	4.72		
Toluene*	<0.050	0.050	02/03/2025	ND	2.42	121	2.00	5.57		
Ethylbenzene*	<0.050	0.050	02/03/2025	ND	2.59	130	2.00	5.41		
Total Xylenes*	<0.150	0.150	02/03/2025	ND	7.90	132	6.00	6.41		
Total BTEX	<0.300	0.300	02/03/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7120	16.0	02/03/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/03/2025	ND	190	94.8	200	0.891		
DRO >C10-C28*	<10.0	10.0	02/03/2025	ND	191	95.3	200	0.817		
EXT DRO >C28-C36	<10.0	10.0	02/03/2025	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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

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: Jeremy Reich
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: (432) 296-0627 Fax #:
Project #: 03C1558483 Project Owner:
Project Name: Corral Canyon 8 Satellite
Project Location: 32.14267, -104.00638
Sampler Name: Mario Sarkis

BILL TO
P.O. #:
Company: XTO Energy
Attn: Colton Brown
Address: 3104 E. Green St.
City: Carlsbad
State: NM Zip: 88220
Phone #: 575-988-2390
Fax #:

Table with columns: Lab I.D., Sample I.D., Depth (feet), (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), BTEX, TPH, Chlorides.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 8-3-25 Time: 1:00
Received By: [Signature] Date: Time:
Verbal Result: [ ] Yes [ ] No Add'l Phone #:
All Results are emailed. Please provide Email address:
jreich@ensolum.com / msarkis@ensolum.com / kthompson@ensolum.com
REMARKS: Incident #: nAPP2501553916
Cost Center: 2125321001
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 1.3 Sample Condition Cool Intact [ ] Yes [ ] No [ ] No [ ] No
Corrected Temp. °C 1.6 CHECKED BY: (Initials) T.O.
Turnaround Time: Standard [ ] Rush [ ] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Thermometer ID #115 #140 Correction Factor 0.5°C +0.3°C

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



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

---

March 05, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 8 SATELLITE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/27/25 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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/27/2025	Sampling Date:	02/26/2025
Reported:	03/05/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: FS 01 1.5' (H251176-01)**

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	03/03/2025	ND	2.12	106	2.00	5.54	
Toluene*	<0.050	0.050	03/03/2025	ND	2.18	109	2.00	6.90	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.27	113	2.00	8.70	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	7.04	117	6.00	9.29	
Total BTEX	<0.300	0.300	03/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	304	16.0	03/03/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 104 % 71.8-148

Surrogate: 1-Chlorooctadecane 101 % 63.9-155

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  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/27/2025	Sampling Date:	02/26/2025
Reported:	03/05/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: FS 02 1.5' (H251176-02)**

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	03/03/2025	ND	2.12	106	2.00	5.54	
Toluene*	<0.050	0.050	03/03/2025	ND	2.18	109	2.00	6.90	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.27	113	2.00	8.70	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	7.04	117	6.00	9.29	
Total BTEX	<0.300	0.300	03/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<b>448</b>	16.0	03/03/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 100 % 71.8-148

Surrogate: 1-Chlorooctadecane 97.4 % 63.9-155

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  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	02/27/2025	Sampling Date:	02/26/2025
Reported:	03/05/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.14267,-104.00638		

**Sample ID: SW 01 0-1.5' (H251176-03)**

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	03/03/2025	ND	2.12	106	2.00	5.54	
Toluene*	<0.050	0.050	03/03/2025	ND	2.18	109	2.00	6.90	
Ethylbenzene*	<0.050	0.050	03/03/2025	ND	2.27	113	2.00	8.70	
Total Xylenes*	<0.150	0.150	03/03/2025	ND	7.04	117	6.00	9.29	
Total BTEX	<0.300	0.300	03/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	416	16.0	03/03/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2025	ND	187	93.5	200	2.69	
DRO >C10-C28*	<10.0	10.0	03/03/2025	ND	177	88.6	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	03/03/2025	ND					

Surrogate: 1-Chlorooctane 100 % 71.8-148

Surrogate: 1-Chlorooctadecane 97.7 % 63.9-155

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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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*

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

1 of 1

Company Name: Ensolum, LLC		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: Jeremy Reich		P.O. #:							
Address: 3122 National Parks Hwy		Company: XTO Energy Inc.							
City: Carlsbad State: NM Zip: 88220		Attn: Colton Brown							
Phone #: 337 257-8307 Fax #:		Address: 3104 E. Green St.							
Project #: 03C1558597 Project Owner: XTO		City: Carlsbad							
Project Name: Corral Canyon 8 Satellite Battery		State: NM Zip: 88220							
Project Location:		Phone #:							
Sampler Name: Connor Whitman		Fax #:							

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G/RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTEX	TPH	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
H251176	FS01	1.5	C 1										2-26-25	1150	/	/	/
2	FS02	1.5	C 1											1156	/	/	/
3	SW01	0-1.5	C 1											1205	/	/	/

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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: <i>[Signature]</i>	Date: 2-27-25 Time: 1400	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address: JReich@ensolum.com, TMorrissey@ensolum.com, kthomason@ensolum.com
Delivered By: (Circle One)	Observed Temp. °C: 3.1	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS: Cost Center: 2125321001 Incident ID: nAPP2501553916
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 3.4	Checked By: (Initials) <i>[Signature]</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			Thermometer ID: #140 Correction Factor: -0.3°C Corrected Temp. °C: 3.1

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



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

---

March 28, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 8 SATELLITE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.142751-104.006738		

**Sample ID: SS 07B 2' (H251805-01)**

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	03/27/2025	ND	1.97	98.6	2.00	4.61	
Toluene*	<0.050	0.050	03/27/2025	ND	2.02	101	2.00	3.38	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	3.21	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.86	97.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	320	16.0	03/28/2025	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	03/27/2025	ND	203	102	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	208	104	200	9.80	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.142751-104.006738		

**Sample ID: SS 10 0.5' (H251805-02)**

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	03/27/2025	ND	1.97	98.6	2.00	4.61	
Toluene*	<0.050	0.050	03/27/2025	ND	2.02	101	2.00	3.38	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	3.21	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.86	97.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	03/28/2025	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	03/27/2025	ND	203	102	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	208	104	200	9.80	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 40.6-153

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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.142751-104.006738		

**Sample ID: SS 09 0.5' (H251805-03)**

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	03/27/2025	ND	1.97	98.6	2.00	4.61	
Toluene*	<0.050	0.050	03/27/2025	ND	2.02	101	2.00	3.38	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	3.21	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.86	97.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	03/28/2025	ND	416	104	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	203	102	200	1.01	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	208	104	200	9.80	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.9 % 40.6-153

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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/28/2025	Sampling Type:	Soil
Project Name:	CORRAL CANYON 8 SATELLITE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558597	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.142751-104.006738		

**Sample ID: SS 09A 0.5' (H251805-04)**

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	03/27/2025	ND	1.97	98.6	2.00	4.61	
Toluene*	<0.050	0.050	03/27/2025	ND	2.02	101	2.00	3.38	
Ethylbenzene*	<0.050	0.050	03/27/2025	ND	1.97	98.6	2.00	3.21	
Total Xylenes*	<0.150	0.150	03/27/2025	ND	5.86	97.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7600</b>	16.0	03/28/2025	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	03/27/2025	ND	203	102	200	1.01	
<b>DRO &gt;C10-C28*</b>	<b>1110</b>	10.0	03/27/2025	ND	208	104	200	9.80	
<b>EXT DRO &gt;C28-C36</b>	<b>951</b>	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

April 10, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: CORRAL CANYON 8 SATELLITE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 07B 2'	H251805-01	Soil	25-Mar-25 10:30	27-Mar-25 13:20
SS 10 0.5'	H251805-02	Soil	25-Mar-25 10:50	27-Mar-25 13:20
SS 09 0.5'	H251805-03	Soil	25-Mar-25 10:55	27-Mar-25 13:20
CS 01 0.5'	H251805-04	Soil	25-Mar-25 11:00	27-Mar-25 13:20

04/10/25 - Client changed the sample ID on -04 (see COC). This is the revised report and will replace the one sent on 03/28/25.

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**SS 07B 2'  
H251805-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	5032827	AC	28-Mar-25	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		5032720	JH	27-Mar-25	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
Surrogate: 1-Chlorooctane			105 %	44.4-145		5032719	MS	27-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			107 %	40.6-153		5032719	MS	27-Mar-25	8015B	

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**SS 10 0.5'  
H251805-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	5032827	AC	28-Mar-25	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032720	JH	27-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		5032720	JH	27-Mar-25	8021B	
--	--	--	-------	----------	--	---------	----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.9 %	44.4-145		5032719	MS	27-Mar-25	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			95.6 %	40.6-153		5032719	MS	27-Mar-25	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**SS 09 0.5'  
H251805-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>6400</b>		16.0	mg/kg	4	5032825	HM	28-Mar-25	4500-Cl-B	QM-07
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	-------

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032720	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134 5032720 JH 27-Mar-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane 99.6 % 44.4-145 5032719 MS 27-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 98.9 % 40.6-153 5032719 MS 27-Mar-25 8015B

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**CS 01 0.5'  
H251805-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>7600</b>		16.0	mg/kg	4	5032825	HM	28-Mar-25	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032720	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032720	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		5032720	JH	27-Mar-25	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1110</b>		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>951</b>		10.0	mg/kg	1	5032719	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			103 %	44.4-145		5032719	MS	27-Mar-25	8015B	
---------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			116 %	40.6-153		5032719	MS	27-Mar-25	8015B	
-------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5032825 - 1:4 DI Water**

<b>Blank (5032825-BLK1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	ND	16.0	mg/kg								
<b>LCS (5032825-BS1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	416	16.0	mg/kg	400		104	80-120				
<b>LCS Dup (5032825-BSD1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20		

**Batch 5032827 - 1:4 DI Water**

<b>Blank (5032827-BLK1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	ND	16.0	mg/kg								
<b>LCS (5032827-BS1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	432	16.0	mg/kg	400		108	80-120				
<b>LCS Dup (5032827-BSD1)</b>											Prepared & Analyzed: 28-Mar-25
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20		

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5032720 - Volatiles**

**Blank (5032720-BLK1)**

Prepared & Analyzed: 27-Mar-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

**LCS (5032720-BS1)**

Prepared & Analyzed: 27-Mar-25

Benzene	1.97	0.050	mg/kg	2.00		98.6	82.8-130			
Toluene	2.02	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128			
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.7	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		97.8	86.1-125			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0452		mg/kg	0.0500		90.5	71.5-134			

**LCS Dup (5032720-BSD1)**

Prepared & Analyzed: 27-Mar-25

Benzene	2.07	0.050	mg/kg	2.00		103	82.8-130	4.61	15.8	
Toluene	2.09	0.050	mg/kg	2.00		104	86-128	3.38	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	3.21	16	
m,p-Xylene	4.02	0.100	mg/kg	4.00		100	89-129	2.74	16.2	
o-Xylene	2.01	0.050	mg/kg	2.00		101	86.1-125	2.87	16.7	
Total Xylenes	6.03	0.150	mg/kg	6.00		100	88.2-128	2.78	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0442		mg/kg	0.0500		88.3	71.5-134			

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 or 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 damage 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 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: CORRAL CANYON 8 SATELLITE - S Project Number: 03C1558597 Project Manager: JEREMY REICH Fax To:	Reported: 10-Apr-25 17:41
--	--	------------------------------

**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 5032719 - General Prep - Organics**

<b>Blank (5032719-BLK1)</b>				Prepared & Analyzed: 27-Mar-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	44.4-145			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	40.6-153			

<b>LCS (5032719-BS1)</b>				Prepared & Analyzed: 27-Mar-25						
GRO C6-C10	203	10.0	mg/kg	200		102	81.5-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122			
Total TPH C6-C28	412	10.0	mg/kg	400		103	80.9-121			
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	44.4-145			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	40.6-153			

<b>LCS Dup (5032719-BSD1)</b>				Prepared & Analyzed: 27-Mar-25						
GRO C6-C10	201	10.0	mg/kg	200		101	81.5-123	1.01	13	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	77.7-122	9.80	15.6	
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	80.9-121	5.37	18.5	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	44.4-145			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	40.6-153			

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 or 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 damage 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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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 or 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 damage 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

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: Jeremy Reich
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 432-296-0627 Fax #:
Project #: 03C1558597 Project Owner: XTO Energy
Project Name: Corral Canyon 8 Satellite - SPILLS
Project Location: 32.142751, -104.006738
Sampler Name: Jesse Dorman
BILL TO ANALYSIS REQUEST
P.O. #:
Company: XTO Energy, Inc
Attn: Colton Brown
Address: 3104 E Greene St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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: [Signature] Date: 3/27/25 Time: 1300
Received By: [Signature] Verbal Result: [ ] Yes [ ] No Add'l Phone #:
All Results are emailed. Please provide Email address: JReich@ensolum.com
REMARKS: \*Customer requested ID changes. 4/10/25
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: 18.2 Corrected Temp. °C: 21.2
Sample Condition Cool Intact [ ] Yes [ ] No
Checked By: (Initials) [Signature]
Turnaround Time: Standard Rush [ ] Bacteria (only) Sample Condition Cool Intact [ ] Yes [ ] No
Thermometer ID #113 #140 24hr
Correction Factor: -0.1°C to 0.3°C

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

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 451953

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2501553916
Incident Name	NAPP2501553916 CORRAL CANYON 8 SATELLITE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2207552359] CORRAL CANYON 8 SAT

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Corral Canyon 8 Satellite
Date Release Discovered	01/14/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 33 BBL   Recovered: 5 BBL   Lost: 28 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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, Page 2

Action 451953

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

*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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 01/15/2025
--	--

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, Page 3

Action 451953

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  451953
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	7600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2061
GRO+DRO (EPA SW-846 Method 8015M)	1110
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/14/2025
On what date will (or did) the final sampling or liner inspection occur	03/25/2025
On what date will (or was) the remediation complete(d)	03/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	2104
What is the estimated volume (in cubic yards) that will be reclaimed	150
What is the estimated surface area (in square feet) that will be remediated	2104
What is the estimated volume (in cubic yards) that will be remediated	150

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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, Page 4

Action 451953

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <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.

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

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

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 04/15/2025
--	--

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.

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, Page 5

Action 451953

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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	No

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, Page 6

Action 451953

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>443920</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/25/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>2</b>
What was the sampling surface area in square feet	<b>400</b>

**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	<b>No</b>
--	-----------

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**

CONDITIONS

Action 451953

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 451953
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	The remediation plan is approved as written. XTO has 90-days (August 7, 2025) to submit to OCD its appropriate or final remediation closure report.	5/9/2025