



November 25, 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: Closure Request  
Poker Lake Unit 342 Battery  
Incident Numbers nAPP2524045876  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document the findings of a liner integrity inspection, assessment, surface scraping, and soil sampling activities conducted at the Poker Lake Unit 342 Battery (Site) following a release of produced water within a 5,426 square foot, steel, lined containment. The lined containment houses steel tanks, separator equipment, and surface production piping. Based on the liner integrity inspection, remedial activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing the inspection results, assessment, delineation, surface scraping, and soil sampling activities that have occurred and requesting closure for Incident Number nAPP2524045876.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E of Section 23, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.206733°, -103.858726°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 27, 2025, failure of a pump resulted in the release of approximately 51 barrels (bbls) of produced water into a steel walled lined containment; approximately 1 bbl overflowed onto the surface of the pad, north of the lined containment the northern surface of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids and 50 bbls of produced water were recovered. The lined containment was power washed to remove any residual fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on August 28, 2025. The release was assigned Incident Number nAPP2524045876.

**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 estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On January 16,

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2024, a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE), C-4911, was completed approximately 0.41 miles northwest of the Site. The soil boring was drilled to a total depth of 104 ft bgs. No groundwater was observed. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The Well Record and Log for C-4911 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash located approximately 1,632 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by potentially unstable geology (low 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) - gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

## **LINER INTEGRITY INSPECTION**

A 48-hour advanced notice of the liner inspection was submitted to the NMOCD on November 19, 2025. The lined containment was cleaned of all debris and power washed, and a liner integrity inspection was conducted by Ensolum personnel on November 21, 2025. The lined containment was inspected, and it was determined that the liner was operating as designed. Upon inspection, no rips, tears, holes, or damage were observed. No peeling or damage was observed to the lined containment walls. The liner was determined to be operating sufficiently, and all released fluids were recovered. Liner inspection activities were conducted shortly after a rain event; some pooling rainwater can be seen throughout the liner; full view of the lined containment was observed and documented. Photographic documentation of the inspection is included in Appendix B.

## **ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES**

Between September 8 and 12, 2025, Ensolum personnel were at the Site to oversee assessment and delineation activities. Eight delineation soil samples (SS01 through SS08) were collected within and around the release extent at ground surface to assess the lateral extent of the release and confirm the release only overflowed on the northern edge of the containment. Two boreholes, BH01 and BH02, were advanced via hand auger to a terminal depth of 1 foot and 2 feet bgs, respectively, within the release extent to assess the vertical extent of the release outside the lined containment area. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet bgs to 2 feet bgs. All 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. Field

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screening results and observations of the soil samples from the borehole were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratory (Eurofins) in Carlsbad, New Mexico or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA method 300.0 or Standard Method SM4500.

On October 8, 2025, Ensolum personnel returned to the Site to collect additional lateral delineation around the lined containment. Three delineation soil samples (SS09 through SS11) were collected around the west, east, and south walls to confirm the release remained within the lined containment walls in these cardinal directions. The delineation soil samples were field screened and handled in the same manner as described above and transported under strict chain-of-custody procedures to Cardinal for analysis of the same COCs described above. All delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

Laboratory analytical results for delineation soil samples SS01 through SS03 indicated chloride concentrations exceeded strictest Table I Closure Criteria, but concentrations were below site Closure Criteria based on the site characterization described above. Laboratory analytical results for delineation soil samples SS04 through SS11 indicated all COCs were in compliance with Site Closure Criteria and strictest Table I Closure Criteria, confirming the lateral extent of the release, and confirming that the release remained within the steel walls of the lined containment along the west, east, and south walls of the containment. Laboratory analytical results for delineation boreholes BH01 and BH02, collected at depths ranging from 0.5 feet bgs to 2 feet bgs indicated all COCs were in compliance with Site Closure Criteria at all depths throughout both boreholes, successfully defining the vertical extent of the release that overflowed from the lined containment. Based on visible staining in the release area, surface scraping activities were warranted.

## **SURFACE SCRAPE AND CONFIRMATION SOIL SAMPLING ACTIVITIES**

On October 2, 2025, Ensolum personnel returned to the Site to oversee surface scraping activities. An area of approximately 916 square feet was surface scraped with hand tools and heavy equipment to the maximum extent practicable (MEP), approximately 0.25 feet bgs to the north of the lined containment and around surface piping and production equipment. Following surface scraping activities, five 5-point composite confirmation soil samples, CS01 through CS05, were collected within the scraped area at a depth of 0.25 feet bgs. Due to the shallow nature of the excavation, soil from the edges of the excavation were incorporated into the composite samples. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were field screened for VOCs and chloride in the same manner as previously described. All confirmation soil samples were handled in the same manner as described above and transported to Cardinal for analysis of the same COCs as previously mentioned. The surface scrape extent and soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation is included in Appendix B.

## **LABORATORY ANALYTICAL RESULTS**

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Laboratory analytical results for confirmation soil samples CS01 through CS05 indicated all COC concentrations in the five confirmation soil samples were in compliance with the Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

## CLOSURE REQUEST

Liner integrity inspection, assessment, delineation, surface scraping, and soil sampling activities were conducted at the Site to address the August 2025 release of produced water. A liner integrity inspection was conducted on behalf of XTO by Ensolum personnel on November 21, 2025. The results of the inspection indicated that the liner was operating as designed and the release was contained laterally by the steel lined containment walls. Laboratory analytical results for SS09 through SS11 indicated that all COC concentrations were in compliance with the strictest Table I Closure Criteria, successfully showing the extent of the release was wholly contained to the west, south, and east by the steel walls of the lined containment. Waste containing soil was removed via surface scraping after the lined containment overflowed on the facility pad, north of the containment. Laboratory analytical results for all waste containing soil remaining in place (CS01 through CS05) indicated all COC concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results, no impacted soil was identified, and no further remediation was required.

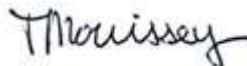
Removal of soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2524045876.

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

Sincerely,  
**Ensolum, LLC**



Tabitha Guadian  
Staff Geologist



Tacoma Morrissey  
Associate Principal

Cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM

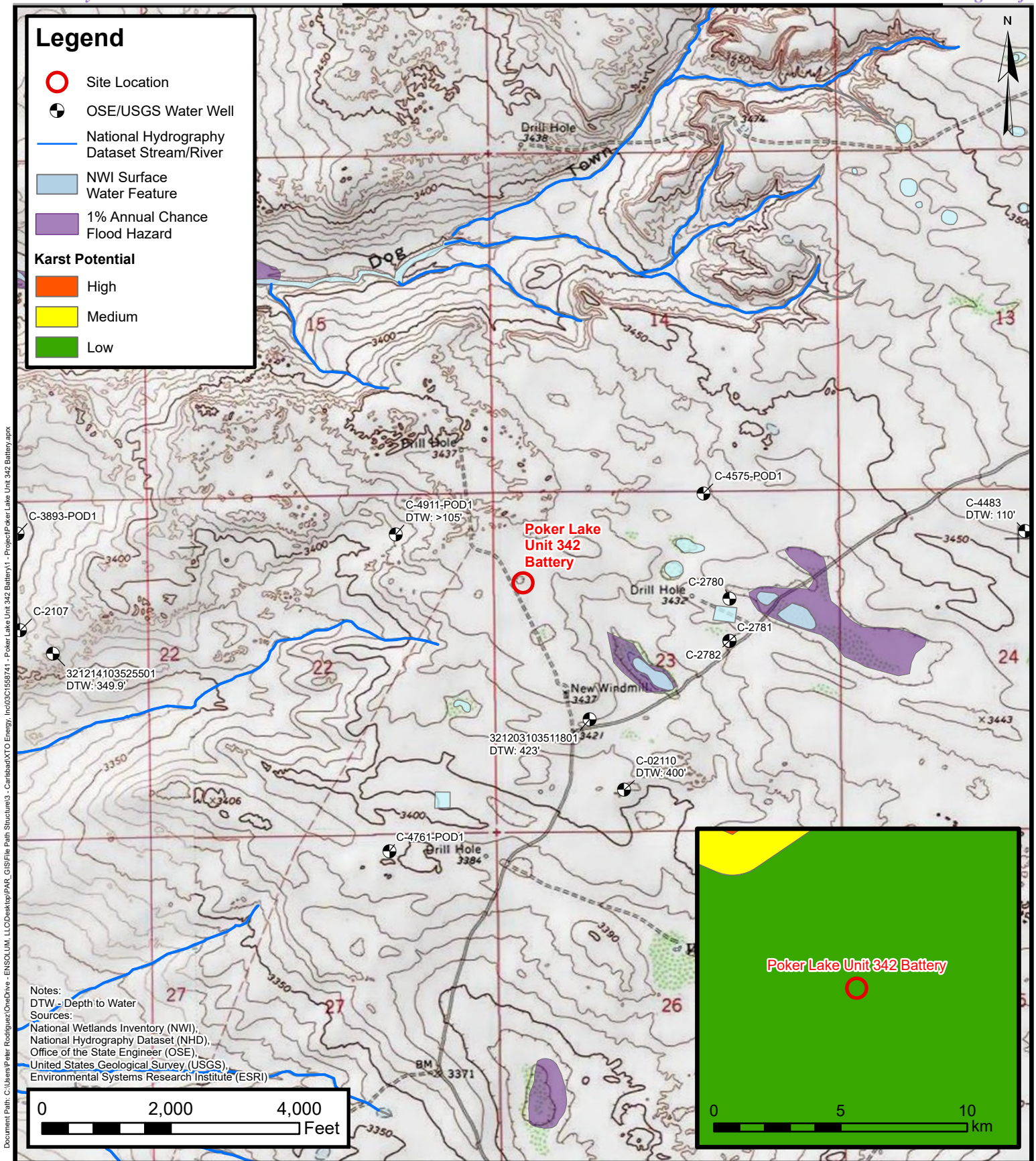
### Appendices:

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	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Spill Volume Calculation





FIGURES



## Site Receptor Map

XTO Energy, Inc

Poker Lake Unit 342 Battery

Incident Number: nAPP2524045876

Unit E, Section 23, T24S, R30E

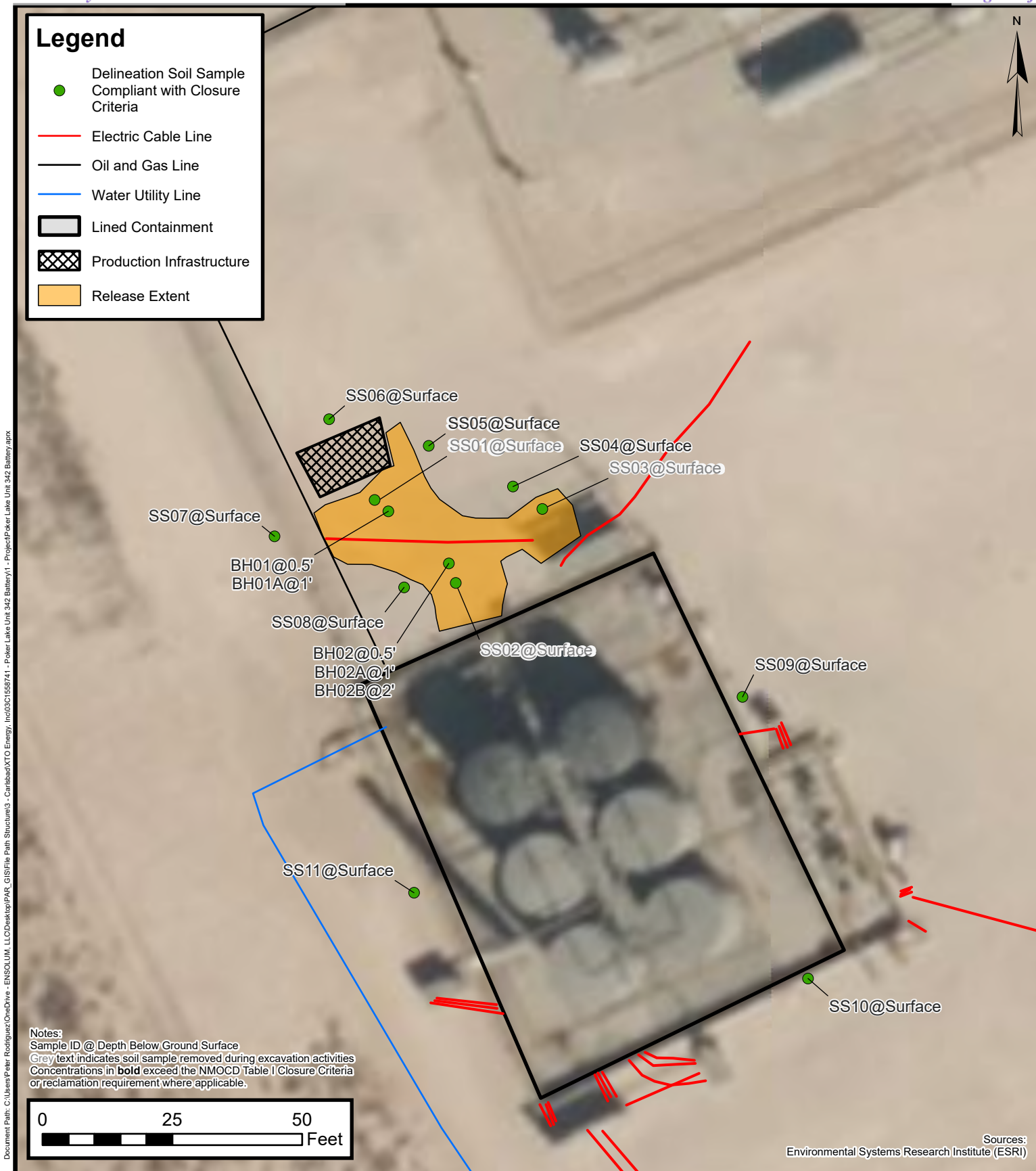
Eddy County, New Mexico

FIGURE

1



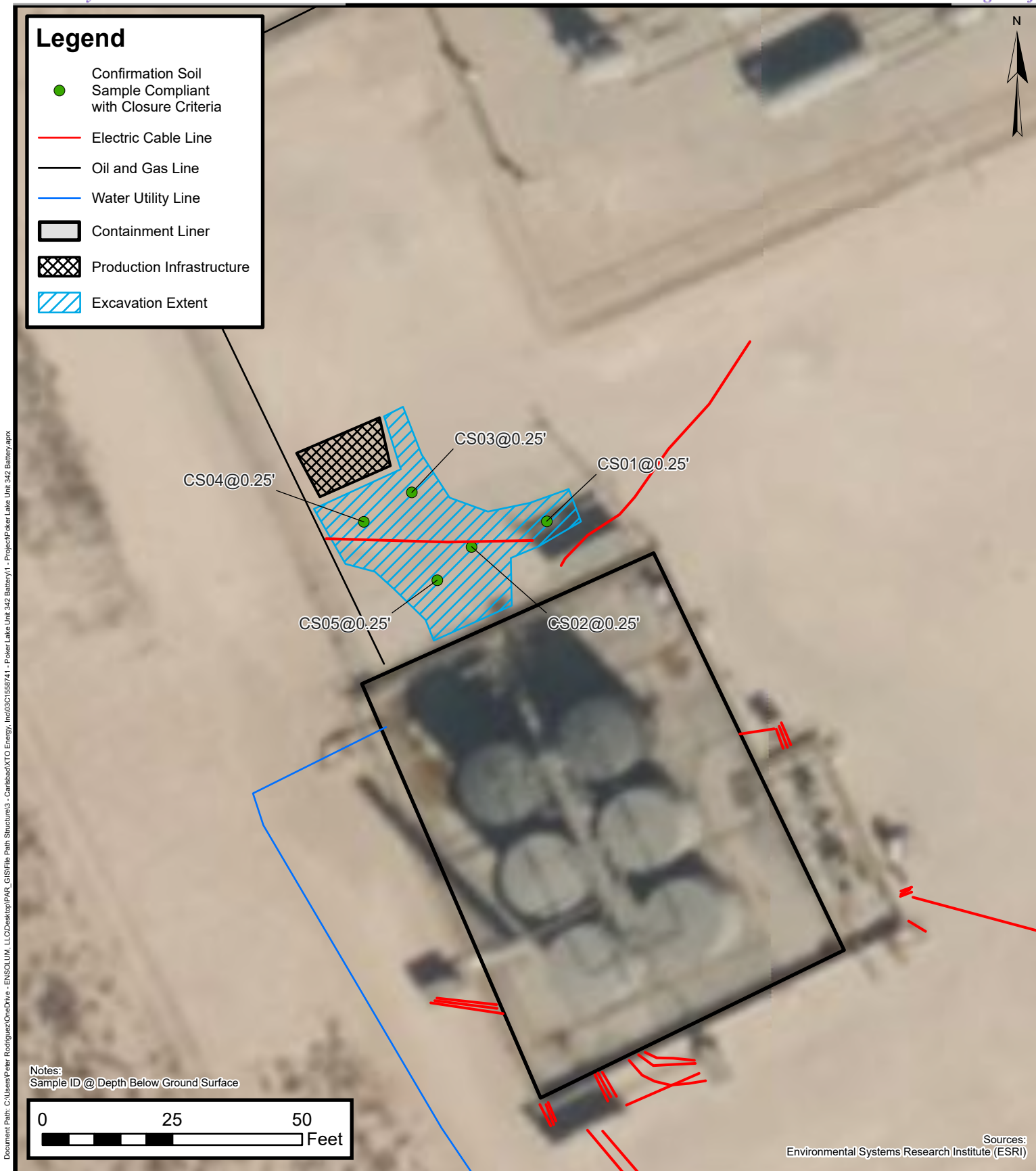




## Delineation Soil Sample Locations

XTO Energy, Inc  
 Poker Lake Unit 342 Battery  
 Incident Number: nAPP2524045876  
 Unit E, Section 23, T24S, R30E  
 Eddy County, New Mexico

FIGURE  
 2



## Confirmation Soil Sample Locations

XTO Energy, Inc  
Poker Lake Unit 342 Battery  
Incident Number: nAPP2524045876  
Unit E, Section 23, T24S, R30E  
Eddy County, New Mexico

**FIGURE**  
**3**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Poker Lake Unit 342 Battery**  
**XTO Energy, Inc**  
**Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD 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>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
SS01	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,200
SS02	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,320
SS03	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,080
SS04	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS05	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS06	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS08	09/10/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS09	10/08/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS10	10/08/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SS11	10/08/2025	SURFACE	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH01	09/12/2025	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	252
BH01A	09/12/2025	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	45.7
BH02	09/12/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	173
BH02A	09/12/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,200
BH02B	09/12/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	88.5
<b>Confirmation Soil Samples</b>										
CS01	10/02/2025	0.25	<0.050	<0.300	<10.0	21.7	<10.0	21.7	21.7	560
CS02	10/02/2025	0.25	<0.050	<0.300	<10.0	65.4	25.7	65.4	91.1	2,960
CS03	10/02/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,870
CS04	10/02/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
CS05	10/02/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,180

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities





## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4911			
	WELL OWNER NAME(S) XTO Energy, Inc.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3104 E. Greene St.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 32.23 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	51	54.46 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 22, T 24S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 01/16/2025	DRILLING ENDED 01/16/2025	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL N/A		DATE STATIC MEASURED 1/16/25, 1/24/25	
	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: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		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)
	0 104		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

OSE DII REGWELL NM  
10 FEB 25 01:43

FOR OSE INTERNAL USE

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

FILE NO. C-4911	POD NO. 1	TRN NO. 771442
LOCATION 24S. 30E. 22 212	WELL TAG ID NO. NA	PAGE 1 OF 2

#### 4. HYDROGEOLOGIC LOG OF WELL

## 5. TEST; RIG SUPERVISION

## 6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-4911	POD NO. 1	TRN NO. 771442	
LOCATION 245.30E. 22 212	WELL TAG ID NO. N/A	PAGE 2 OF 2	



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc.  
Poker Lake Unit 342 Battery  
nAPP2524045876



Photograph: 1 Date: 8/27/2025  
Description: Initial release, south end of lined containment  
View: Southwest



Photograph: 2 Date: 8/27/2025  
Description: Initial release, overflow from containment onto pad  
View: Northwest



Photograph: 3 Date: 9/8/2025  
Description: Initial assessment activities near SS01  
View: Northwest



Photograph: 4 Date: 9/8/2025  
Description: Initial assessment activities near SS01  
View: Southwest



**Photographic Log**

XTO Energy, Inc.  
Poker Lake Unit 342 Battery  
nAPP2524045876



Photograph: 5                      Date: 9/12/2025  
Description: Delineation activities near BH02  
View: Southeast



Photograph: 6                      Date: 10/01/2025  
Description: Surface scraping activities near CS01  
View: Southwest



Photograph: 7                      Date: 10/01/2025  
Description: Surface scraping activities near CS04,  
CS03  
View: Northwest



Photograph: 8                      Date: 10/01/2025  
Description: Surface scraping activities near CS02,  
CS05  
View: Northeast



**Photographic Log**

XTO Energy, Inc.  
Poker Lake Unit 342 Battery  
nAPP2524045876



Photograph: 9

Date: 11/21/2025

Description: Facility sign

View: Northwest

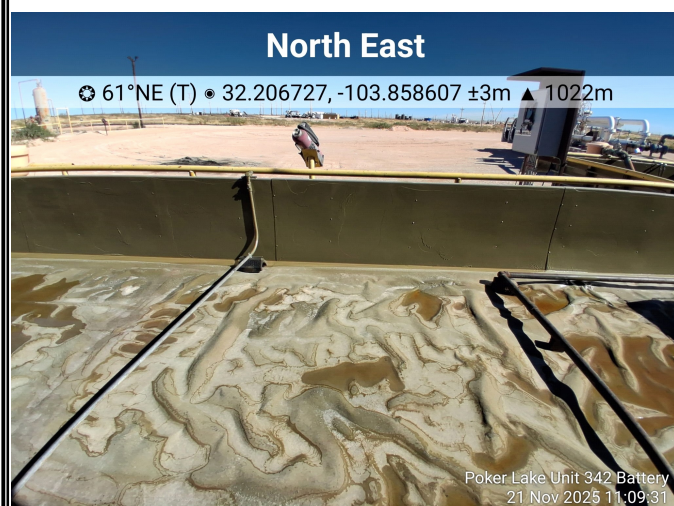


Photograph: 10

Date: 11/21/2025

Description: Liner inspection activities in the center of the lined containment

View: East



Photograph: 7

Date: 11/21/2025

Description: Liner inspection activities, along the eastern wall

View: Northeast



Photograph: 12

Date: 11/21/2025

Description: Liner inspection activities along the western wall

View: West



**Photographic Log**

XTO Energy, Inc.

Poker Lake Unit 342 Battery

nAPP2524045876



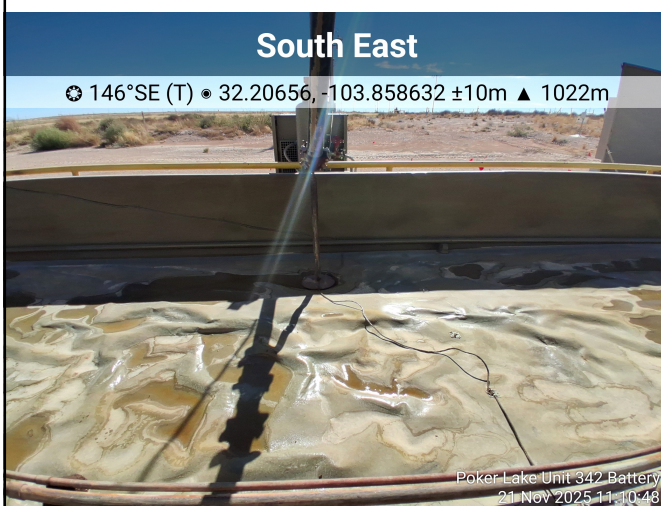
Photograph: 13                      Date: 11/21/2025  
 Description: Liner inspection activities, northeast corner of lined containment  
 View: East



Photograph: 14                      Date: 11/21/2025  
 Description: Liner inspection activities along the eastern wall  
 View: East



Photograph: 15                      Date: 11/21/2025  
 Description: Liner inspection activities, along the southern wall  
 View: Southwest




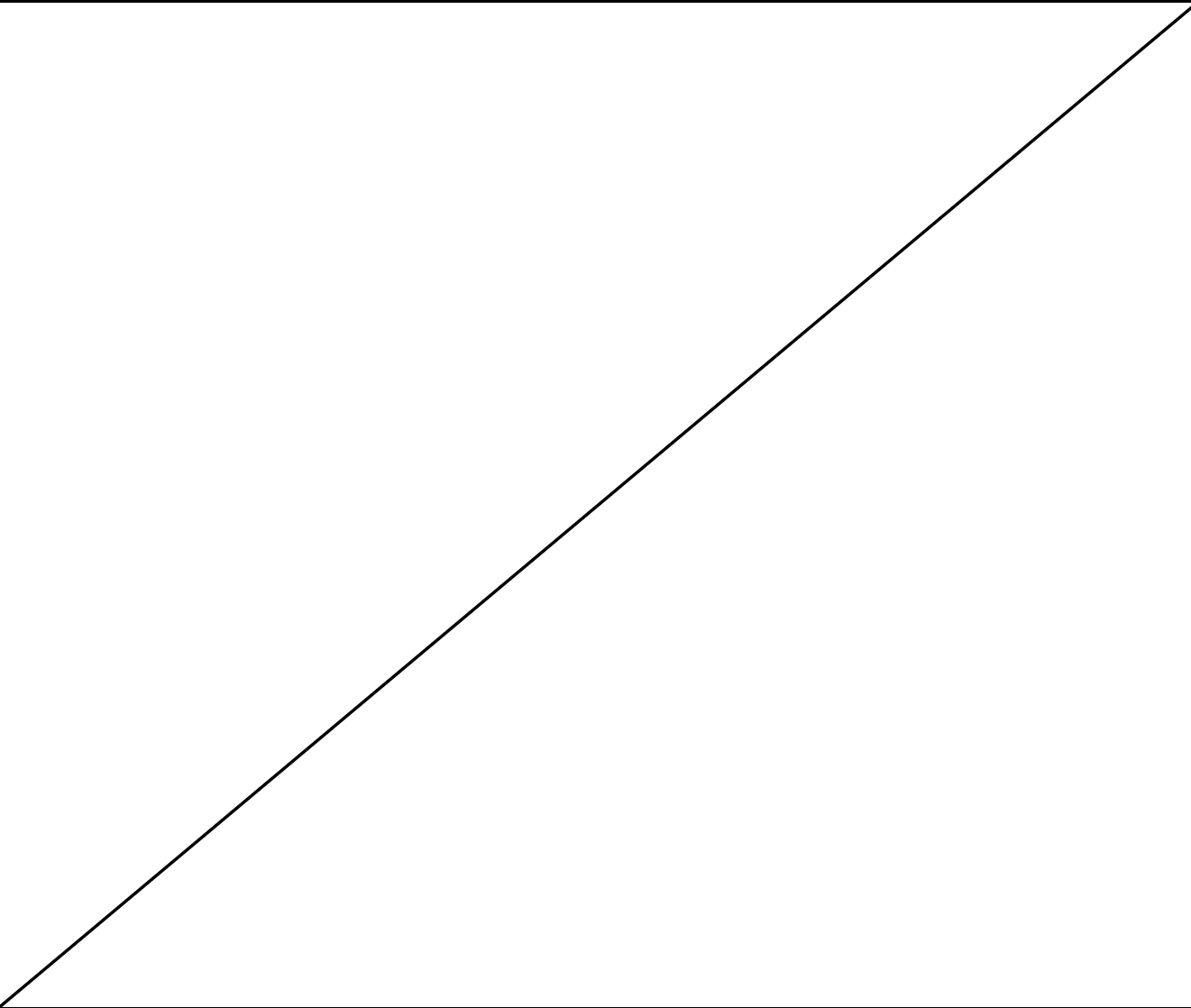
Photograph: 16                      Date: 11/21/2025  
 Description: Liner inspection activities along the southeastern wall  
 View: Southeast




## APPENDIX C

### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>								Sample Name: BH01		Date: 09/12/2025	
								Site Name: Poker Lake Unit 342 Battery			
								Incident Number: nAPP2524045876			
								Job Number: 03C1558741			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: ER		Method: Hand Auger	
Coordinates: 32.206833,-103.858802								Hole Diameter:		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	196	0.0	N	BH01	0.5	0	CCHE	Caliche, light brown, no odor or staining			
D	<162	0.0	N	BH01	1	1	SW-SP	Brown, no odor or staining, sand			
Total depth @ 1'											
											

 <b>ENSOLUM</b>		Sample Name: BH02		Date: 09/12/2025				
		Site Name: Poker Lake Unit 342 Battery						
		Incident Number: nAPP2524045876						
		Job Number: 03C1558741						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.206806, -103.858764				Logged By: ER		Method: Hand Auger		
				Hole Diameter:		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 factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	162	0.3	N	BH02	0.5	0.5	CCHE	Caliche, light brown, no odor or staining
D	1,915	0.0	N	BH02	1	1	SW-SP	Brown, no odor or staining, sand
D	<162	0.0	N	BH02	2	2	SW-SP	Brown, no odor or staining, sand
Total depth @ 2'								
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

1

2

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4

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6

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11

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14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeremy Reich

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 9/16/2025 9:33:45 AM

## JOB DESCRIPTION

PLU 342 BATTERY

03C1558741

## JOB NUMBER

890-8789-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
9/16/2025 9:33:45 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Laboratory Job ID: 890-8789-1  
SDG: 03C1558741

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Ensolum  
Project: PLU 342 BATTERY

Job ID: 890-8789-1

**Job ID: 890-8789-1**

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### Job Narrative 890-8789-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 9/12/2025 2:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 01 (890-8789-1), BH 01A (890-8789-2), BH 02 (890-8789-3), BH 02A (890-8789-4) and BH 02B (890-8789-5).

### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-118844 and analytical batch 880-118855 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 01

Lab Sample ID: 890-8789-1

Date Collected: 09/12/25 09:49

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 0.5

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/15/25 10:06	09/15/25 13:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/15/25 10:06	09/15/25 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/15/25 10:06	09/15/25 13:05	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/15/25 10:06	09/15/25 13:05	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/15/25 13:05	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/15/25 12:37	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 12:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 12:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	09/15/25 08:07	09/15/25 12:37	1
o-Terphenyl	95		70 - 130	09/15/25 08:07	09/15/25 12:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		10.0	mg/Kg			09/15/25 12:19	1

Client Sample ID: BH 01A

Lab Sample ID: 890-8789-2

Date Collected: 09/12/25 09:56

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 13:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 13:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 13:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/15/25 10:06	09/15/25 13:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 13:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/15/25 10:06	09/15/25 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/15/25 10:06	09/15/25 13:25	1

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 01A

Lab Sample ID: 890-8789-2

Date Collected: 09/12/25 09:56

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 1

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	09/15/25 10:06	09/15/25 13:25	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/15/25 13:25	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/15/25 12:52	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 12:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 12:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			09/15/25 08:07	09/15/25 12:52	1
o-Terphenyl	95		70 - 130			09/15/25 08:07	09/15/25 12:52	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		10.1	mg/Kg			09/15/25 12:25	1

Client Sample ID: BH 02

Lab Sample ID: 890-8789-3

Date Collected: 09/12/25 10:19

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 0.5

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/15/25 10:06	09/15/25 13:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/15/25 10:06	09/15/25 13:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/15/25 10:06	09/15/25 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/15/25 10:06	09/15/25 13:46	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/15/25 10:06	09/15/25 13:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/15/25 13:46	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/15/25 13:06	1

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 02

Lab Sample ID: 890-8789-3

Date Collected: 09/12/25 10:19

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 0.5

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/15/25 08:07	09/15/25 13:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/15/25 08:07	09/15/25 13:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/15/25 08:07	09/15/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/15/25 08:07	09/15/25 13:06	1
o-Terphenyl	93		70 - 130			09/15/25 08:07	09/15/25 13:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.1	mg/Kg			09/15/25 12:31	1

Client Sample ID: BH 02A

Lab Sample ID: 890-8789-4

Date Collected: 09/12/25 10:24

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/15/25 10:06	09/15/25 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/15/25 10:06	09/15/25 14:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/15/25 10:06	09/15/25 14:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/15/25 14:06	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/15/25 13:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 13:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 13:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/15/25 08:07	09/15/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			09/15/25 08:07	09/15/25 13:20	1
o-Terphenyl	97		70 - 130			09/15/25 08:07	09/15/25 13:20	1

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 02A

Lab Sample ID: 890-8789-4

Date Collected: 09/12/25 10:24

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		9.96	mg/Kg			09/15/25 12:54	1

Client Sample ID: BH 02B

Lab Sample ID: 890-8789-5

Date Collected: 09/12/25 10:40

Matrix: Solid

Date Received: 09/12/25 14:28

Sample Depth: 2

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/15/25 10:06	09/15/25 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/15/25 10:06	09/15/25 14:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130			09/15/25 10:06	09/15/25 14:27	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/15/25 14:27	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/15/25 13:36	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 13:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 13:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 13:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			09/15/25 08:07	09/15/25 13:36	1
o-Terphenyl	90		70 - 130			09/15/25 08:07	09/15/25 13:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5		9.92	mg/Kg			09/15/25 13:12	1

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8789-1	BH 01	110	81
890-8789-2	BH 01A	112	85
890-8789-3	BH 02	106	86
890-8789-4	BH 02A	98	92
890-8789-5	BH 02B	96	95
890-8795-A-1-E MS	Matrix Spike	120	92
890-8795-A-1-F MSD	Matrix Spike Duplicate	95	97
LCS 880-118872/1-A	Lab Control Sample	117	81
LCSD 880-118872/2-A	Lab Control Sample Dup	115	87
MB 880-118872/5-A	Method Blank	110	79

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8789-1	BH 01	94	95
890-8789-2	BH 01A	96	95
890-8789-3	BH 02	93	93
890-8789-4	BH 02A	97	97
890-8789-5	BH 02B	91	90
890-8795-A-1-H MS	Matrix Spike	102	97
890-8795-A-1-I MSD	Matrix Spike Duplicate	102	97
LCS 880-118845/2-A	Lab Control Sample	124	126
LCSD 880-118845/3-A	Lab Control Sample Dup	125	123
MB 880-118845/1-A	Method Blank	83	85

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-118872/5-A

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118872

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/15/25 10:06	09/15/25 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/15/25 10:06	09/15/25 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/15/25 10:06	09/15/25 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/15/25 10:06	09/15/25 11:41	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/15/25 10:06	09/15/25 11:41	1

Lab Sample ID: LCS 880-118872/1-A

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08248		mg/Kg		82	70 - 130
Toluene	0.100	0.09144		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2086		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: LCSD 880-118872/2-A

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09356		mg/Kg		94	70 - 130	13	35
Toluene	0.100	0.09281		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09764		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1930		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.09616		mg/Kg		96	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-8795-A-1-E MS

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08249		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.100	0.08118		mg/Kg		81	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8795-A-1-E MS

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08143		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1602		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.07815		mg/Kg		78	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	120		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Lab Sample ID: 890-8795-A-1-F MSD

Matrix: Solid

Analysis Batch: 118849

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1019		mg/Kg		102	70 - 130	21	35
Toluene	<0.00200	U	0.100	0.08587		mg/Kg		86	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.08363		mg/Kg		84	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1584		mg/Kg		79	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.07835		mg/Kg		78	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-118845/1-A

Matrix: Solid

Analysis Batch: 118875

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118845

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 10:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/15/25 08:07	09/15/25 10:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
1-Chlorooctane	83		70 - 130					
o-Terphenyl	85		70 - 130					

Lab Sample ID: LCS 880-118845/2-A

Matrix: Solid

Analysis Batch: 118875

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	895.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.0		mg/Kg		97	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-118845/2-A  
Matrix: Solid  
Analysis Batch: 118875

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 118845

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-118845/3-A  
Matrix: Solid  
Analysis Batch: 118875

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 118845

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.9		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	972.8		mg/Kg		97	70 - 130	0	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	125		70 - 130								
o-Terphenyl	123		70 - 130								

Lab Sample ID: 890-8795-A-1-H MS  
Matrix: Solid  
Analysis Batch: 118875

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 118845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	832.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	899.6		mg/Kg		90	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: 890-8795-A-1-I MSD  
Matrix: Solid  
Analysis Batch: 118875

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 118845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	821.3		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	860.5		mg/Kg		86	70 - 130	4	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	97		70 - 130								

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118844/1-A

Matrix: Solid

Analysis Batch: 118855

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			09/15/25 10:17	1

Lab Sample ID: LCS 880-118844/2-A

Matrix: Solid

Analysis Batch: 118855

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-118844/3-A

Matrix: Solid

Analysis Batch: 118855

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-8789-4 MS

Matrix: Solid

Analysis Batch: 118855

Client Sample ID: BH 02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1200		249	1384	4	mg/Kg		74	90 - 110

Lab Sample ID: 890-8789-4 MSD

Matrix: Solid

Analysis Batch: 118855

Client Sample ID: BH 02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1200		249	1374	4	mg/Kg		70	90 - 110	1	20

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## GC VOA

## Analysis Batch: 118849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	8021B	118872
890-8789-2	BH 01A	Total/NA	Solid	8021B	118872
890-8789-3	BH 02	Total/NA	Solid	8021B	118872
890-8789-4	BH 02A	Total/NA	Solid	8021B	118872
890-8789-5	BH 02B	Total/NA	Solid	8021B	118872
MB 880-118872/5-A	Method Blank	Total/NA	Solid	8021B	118872
LCS 880-118872/1-A	Lab Control Sample	Total/NA	Solid	8021B	118872
LCSD 880-118872/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118872
890-8795-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	118872
890-8795-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	118872

## Prep Batch: 118872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	5035	
890-8789-2	BH 01A	Total/NA	Solid	5035	
890-8789-3	BH 02	Total/NA	Solid	5035	
890-8789-4	BH 02A	Total/NA	Solid	5035	
890-8789-5	BH 02B	Total/NA	Solid	5035	
MB 880-118872/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118872/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118872/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8795-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8795-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 118969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	Total BTEX	
890-8789-2	BH 01A	Total/NA	Solid	Total BTEX	
890-8789-3	BH 02	Total/NA	Solid	Total BTEX	
890-8789-4	BH 02A	Total/NA	Solid	Total BTEX	
890-8789-5	BH 02B	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 118845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	8015NM Prep	
890-8789-2	BH 01A	Total/NA	Solid	8015NM Prep	
890-8789-3	BH 02	Total/NA	Solid	8015NM Prep	
890-8789-4	BH 02A	Total/NA	Solid	8015NM Prep	
890-8789-5	BH 02B	Total/NA	Solid	8015NM Prep	
MB 880-118845/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118845/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118845/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8795-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8795-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 118875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	8015B NM	118845
890-8789-2	BH 01A	Total/NA	Solid	8015B NM	118845

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

## GC Semi VOA (Continued)

## Analysis Batch: 118875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-3	BH 02	Total/NA	Solid	8015B NM	118845
890-8789-4	BH 02A	Total/NA	Solid	8015B NM	118845
890-8789-5	BH 02B	Total/NA	Solid	8015B NM	118845
MB 880-118845/1-A	Method Blank	Total/NA	Solid	8015B NM	118845
LCS 880-118845/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118845
LCSD 880-118845/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118845
890-8795-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	118845
890-8795-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	118845

## Analysis Batch: 118972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Total/NA	Solid	8015 NM	
890-8789-2	BH 01A	Total/NA	Solid	8015 NM	
890-8789-3	BH 02	Total/NA	Solid	8015 NM	
890-8789-4	BH 02A	Total/NA	Solid	8015 NM	
890-8789-5	BH 02B	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 118844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Soluble	Solid	DI Leach	
890-8789-2	BH 01A	Soluble	Solid	DI Leach	
890-8789-3	BH 02	Soluble	Solid	DI Leach	
890-8789-4	BH 02A	Soluble	Solid	DI Leach	
890-8789-5	BH 02B	Soluble	Solid	DI Leach	
MB 880-118844/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118844/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118844/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8789-4 MS	BH 02A	Soluble	Solid	DI Leach	
890-8789-4 MSD	BH 02A	Soluble	Solid	DI Leach	

## Analysis Batch: 118855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8789-1	BH 01	Soluble	Solid	300.0	118844
890-8789-2	BH 01A	Soluble	Solid	300.0	118844
890-8789-3	BH 02	Soluble	Solid	300.0	118844
890-8789-4	BH 02A	Soluble	Solid	300.0	118844
890-8789-5	BH 02B	Soluble	Solid	300.0	118844
MB 880-118844/1-A	Method Blank	Soluble	Solid	300.0	118844
LCS 880-118844/2-A	Lab Control Sample	Soluble	Solid	300.0	118844
LCSD 880-118844/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118844
890-8789-4 MS	BH 02A	Soluble	Solid	300.0	118844
890-8789-4 MSD	BH 02A	Soluble	Solid	300.0	118844

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 01

Date Collected: 09/12/25 09:49

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	118872	09/15/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118849	09/15/25 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118969	09/15/25 13:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			118972	09/15/25 12:37	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	118845	09/15/25 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118875	09/15/25 12:37	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	118844	09/15/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	118855	09/15/25 12:19	CS	EET MID

Client Sample ID: BH 01A

Date Collected: 09/12/25 09:56

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	118872	09/15/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118849	09/15/25 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118969	09/15/25 13:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			118972	09/15/25 12:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118845	09/15/25 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118875	09/15/25 12:52	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	118844	09/15/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	118855	09/15/25 12:25	CS	EET MID

Client Sample ID: BH 02

Date Collected: 09/12/25 10:19

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	118872	09/15/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118849	09/15/25 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118969	09/15/25 13:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			118972	09/15/25 13:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	118845	09/15/25 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118875	09/15/25 13:06	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	118844	09/15/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	118855	09/15/25 12:31	CS	EET MID

Client Sample ID: BH 02A

Date Collected: 09/12/25 10:24

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	118872	09/15/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118849	09/15/25 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118969	09/15/25 14:06	SA	EET MID

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Lab Chronicle

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Client Sample ID: BH 02A

Date Collected: 09/12/25 10:24

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			118972	09/15/25 13:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	118845	09/15/25 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118875	09/15/25 13:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	118844	09/15/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	118855	09/15/25 12:54	CS	EET MID

Client Sample ID: BH 02B

Date Collected: 09/12/25 10:40

Date Received: 09/12/25 14:28

Lab Sample ID: 890-8789-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	118872	09/15/25 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118849	09/15/25 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118969	09/15/25 14:27	SA	EET MID
Total/NA	Analysis	8015 NM		1			118972	09/15/25 13:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118845	09/15/25 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118875	09/15/25 13:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	118844	09/15/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	118855	09/15/25 13:12	CS	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Ensolum  
Project/Site: PLU 342 BATTERY

Job ID: 890-8789-1  
SDG: 03C1558741

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8789-1	BH 01	Solid	09/12/25 09:49	09/12/25 14:28	0.5
890-8789-2	BH 01A	Solid	09/12/25 09:56	09/12/25 14:28	1
890-8789-3	BH 02	Solid	09/12/25 10:19	09/12/25 14:28	0.5
890-8789-4	BH 02A	Solid	09/12/25 10:24	09/12/25 14:28	1
890-8789-5	BH 02B	Solid	09/12/25 10:40	09/12/25 14:28	2

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- 10
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- 12
- 13
- 14

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Environment Testing

Xenoco

Work Order No:

Page  of   
www.xenco.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Manager:	Jeremy Reich	Bill to: (if different)	Lepton Brown
Company Name:	Ensemble	Company Name:	XTO Energy <del>Inc</del> Inc
Address:	3122 National Parkway	Address:	3104 E. Garneau St
City, State ZIP:	Leeds, bed. NM 88220	City, State ZIP:	Leeds, bed. NM 88220
Phone:	432-296-0627	Email:	rich@ensemble.com

Project Name:		Turn Around		Parameters		Preservative Codes	
Project Number:		Temp Blank:		Wet Ice:		None: NO	
Project Location:		Yes No		Thermometer ID:		Cool: Cool	
Sampler's Name:		Yes No		Correction Factor:		HCL: HC	
PO #:		Yes No		Temperature Reading:		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	
SAMPLE RECEIPT		Yes No		Corrected Temperature:		H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:		Yes No		Thermometer ID:		NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:		Yes No		Correction Factor:		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:		Yes No		Temperature Reading:		Zn Acetate+NaOH: Zn	
Total Containers:		Yes No		Corrected Temperature:		NaOH+Ascorbic Acid: SAPC	
Project Name: PLW 342 Botany		Turn Around: Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Parameters: Grab/Comp		Pres. Code	
Project Number: 0321558741		Due Date: 4/8/12		TAT starts the day received by the lab, if received by 4:30pm			
Project Location: 32.20686, -103.85391		Temp Blank: Yes No		Wet Ice: Yes No			
Sampler's Name: Kevin Bore		Thermometer ID: 10.2		Correction Factor: 4.4			
PO #: 14.2		Temperature Reading: 14.2		Corrected Temperature: 14.2			
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No			
Samples Received Intact:		Yes No		Thermometer ID:			
Cooler Custody Seals:		Yes No		Correction Factor:			
Sample Custody Seals:		Yes No		Temperature Reading:			
Total Containers:		Yes No		Corrected Temperature:			
Sample Identification		Date Sampled		Time Sampled		Depth Feet	
B4H01		4/12/12		949		0.5	
B4H01A		4/12/12		956		1	
B4H02		4/12/12		1019		0.5	
B4H02A		4/12/12		1024		1	
B4H02B		4/12/12		1040		2	
B4H02C		4/12/12		1040		2	
B4H02D		4/12/12		1040		2	
B4H02E		4/12/12		1040		2	
B4H02F		4/12/12		1040		2	
B4H02G		4/12/12		1040		2	
B4H02H		4/12/12		1040		2	
B4H02I		4/12/12		1040		2	
B4H02J		4/12/12		1040		2	
B4H02K		4/12/12		1040		2	
B4H02L		4/12/12		1040		2	
B4H02M		4/12/12		1040		2	
B4H02N		4/12/12		1040		2	
B4H02O		4/12/12		1040		2	
B4H02P		4/12/12		1040		2	
B4H02Q		4/12/12		1040		2	
B4H02R		4/12/12		1040		2	
B4H02S		4/12/12		1040		2	
B4H02T		4/12/12		1040		2	
B4H02U		4/12/12		1040		2	
B4H02V		4/12/12		1040		2	
B4H02W		4/12/12		1040		2	
B4H02X		4/12/12		1040		2	
B4H02Y		4/12/12		1040		2	
B4H02Z		4/12/12		1040		2	
B4H02AA		4/12/12		1040		2	
B4H02AB		4/12/12		1040		2	
B4H02AC		4/12/12		1040		2	
B4H02AD		4/12/12		1040		2	
B4H02AE		4/12/12		1040		2	
B4H02AF		4/12/12		1040		2	
B4H02AG		4/12/12		1040		2	
B4H02AH		4/12/12		1040		2	
B4H02AI		4/12/12		1040		2	
B4H02AJ		4/12/12		1040		2	
B4H02AK		4/12/12		1040		2	
B4H02AL		4/12/12		1040		2	
B4H02AM		4/12/12		1040		2	
B4H02AN		4/12/12		1040		2	
B4H02AO		4/12/12		1040		2	
B4H02AP		4/12/12		1040		2	
B4H02AQ		4/1					

[illegible]

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>John</i>	<i>Sam</i>	9/12/14	<i>Sam</i>		
3						
5						

## Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



### Environment Testing

Client Information (Sub Contract Lab)						Carrier Tracking No(s)
Client Contact		Phone:	E-Mail:	State of Origin:		COC No.
Shipping/Receiving		N/A	Jessica.Kramer@et.eurofins.com	New Mexico		890-5863.1
Company:		Eurofins Environment Testing South Cent		Accreditations Required (See note):		Page 1 of 1
Address:		1211 W. Florida Ave.		NELAP - Texas		Job #
City:		TAT Requested (days):		Analysis Requested		Preservation Codes:
Midland		N/A				890-8789-1
State ZIP:		TX, 79701				
Phone:		PO #:				
432-704-5440(Tel)		N/A				
Email:		WO #:				
N/A		N/A				
Project Name:		Project #:				
PLU 342 BATTERY		89000110				
Site:		SSOW#:				
N/A		N/A				
Sample Identification - Client ID (Lab ID)						Special Instructions/Note:
BH 01 (890-8789-1)	9/12/25	09:49	G	Solid	X	1
BH 01A (890-8789-2)	9/12/25	09:56	G	Solid	X	1
BH 02 (890-8789-3)	9/12/25	10:19	G	Solid	X	1
BH 02A (890-8789-4)	9/12/25	10:24	G	Solid	X	1
BH 02B (890-8789-5)	9/12/25	10:40	G	Solid	X	1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Signature: [Handwritten Signature]

Date/Time: 9/15/25 800

3.6/3.7 - LRS



## Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220

## Chain of Custody Record



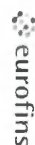
## Environment Testina

Client Information (Sub Contract Lab)						Sampler:	N/A	Lab PM:	Teel, Brianna	Carrier Tracking No(s):	COC No.: 890-5864.4						
Shipping/Receiving						Phone:	N/A	E-Mail:	Brianna.Teel@et.eurofinsus.com	State of Origin: New Mexico	Page Page 4 of 4						
Company: Eurofins Environment Testing South Cent						Accreditations Required (See note):			NELAP - Texas								
Address: 1211 W. Florida Ave., Midland TX, 79701						Due Date Requested:	9/18/2025	Analysis Requested			Preservation Codes:						
City:						TAT Requested (days):	N/A										
State Zip:						PO #:	N/A										
Phone:						W/O #:	N/A										
Email:						Project #:	88001228										
Project Name:						SpuD muffin 31 CTB 1	SSOW#:	N/A									
Site:						N/A	Field Filtered Sample (Yes or No)										
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overstool, B-Tissue, AAH)	Perform MS/MSD (Yes or No)	Total_BTEX_GCV	8021B/5035FP_CalcBTEX	300_ORGFM_28D/DI_LEACHChloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep8015 NM	Total Number of containers	Special Instructions/Note:
HA-4 (890-8790-28)						9/12/25	10:15 Mountain	G	Solid	X	X	X	X	X		1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																	
Possible Hazard Identification																	
Unconfirmed																	
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																	
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____																	
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____																	
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____																	
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____																	
Δ Yes Δ No																	

## Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



## Environment Testing

Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s)		COC No:								
Client Contact	Shipping/Receiving	Phone:	N/A	E-Mail:	Test: Brianna	N/A		890-5864.3								
Company: Eurofins Environment Testing South Cent				Accreditations Required (See note)		State of Origin:		Page 3 of 4								
Address: 1211 W. Florida Ave.				NEAP - Texas		New Mexico		Job #: 890-8790-1								
City: 1211 W. Florida Ave.				Due Date Requested:		Analysis Requested		Preservation Codes:								
State, Zip: TX, 79701				TAT Requested (days):		N/A										
Phone: 432-704-5440(Tel)				PO #:		N/A										
Email: N/A				WO #:		N/A										
Project Name: spud muffin 31 CTB 1				Project #:		88001228										
Site: SSO#				SSOW#		N/A										
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total_BTEx_GCV	8021B/5035FP_CalcBTEx	300_ORGFM_28D/DI_LEACHChloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep8015 NM	Total Number of containers	Special Instructions/Note:
HA-3 (890-8790-19)		9/12/25	09:30	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-3 (890-8790-20)		9/12/25	09:35	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-3 (890-8790-21)		9/12/25	09:40	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-22)		9/12/25	09:45	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-23)		9/12/25	09:50	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-24)		9/12/25	09:55	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-25)		9/12/25	10:00	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-26)		9/12/25	10:05	Mountain	G	Solid		X	X	X	X	X	X	X	1	
HA-4 (890-8790-27)		9/12/25	10:10	Mountain	G	Solid		X	X	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QAC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	Date/Time:	Company:	
Relinquished by: Burns	9/12/25	16:30	Company	Received by: [Signature]	9/12/25	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	

Custody Seals Intact: Custody Seal No.: A Yes A No Cooler Temperature(s) °C and Other Remarks:



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Eurofins Carlsbad

Chain of Custody Record



Environment Testing

1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact	N/A	Teel, Brianna	N/A	890-5864 2	Page 2 of 4
Shipping/Receiving	Phone	N/A	E-Mail	State of Origin:	Job #
Company	N/A	Brianna.Teel@eurofins.com	Accreditations Required (See note)	New Mexico	890-8790-1
Eurofins Environment Testing South Cent		NELAP - Texas		Preservation Codes:	
Address: 1211 W. Florida Ave.		Due Date Requested: 9/18/2025		Analysis Requested	
City: Midland	TAT Requested (days):	N/A			
State: TX	TX: 79701				
Phone: 432-704-5440(Tel)	PO #:				
N/A	N/A				
Project Name: spud muffin 31 CTB 1	Project #:				
Site: SSO#	88001228				
N/A	N/A				
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
Total_BTEx_GCV					
8021B/5035FP_CalcBTEx					
300_ORGFm_28D/DI_LEACHChloride					
8015MOD_Calc					
8015MOD_NM/8015NM_S_Prep8015 NM					
Total Number of containers					
Special Instructions/Note:					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wetweight, Solid, Composite, ST-Tissue, AA#)
HA-2 (890-8790-10)	9/12/25	08:45	G	Solid	
HA-2 (890-8790-11)	9/12/25	08:50	G	Solid	
HA-2 (890-8790-12)	9/12/25	08:55	G	Solid	
HA-2 (890-8790-13)	9/12/25	09:00	G	Solid	
HA-2 (890-8790-14)	9/12/25	09:05	G	Solid	
HA-3 (890-8790-15)	9/12/25	09:10	G	Solid	
HA-3 (890-8790-16)	9/12/25	09:15	G	Solid	
HA-3 (890-8790-17)	9/12/25	09:20	G	Solid	
HA-3 (890-8790-18)	9/12/25	09:25	G	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Empty Kit Relinquished by: <i>Burns</i> Date: <i>9/18/25</i> Time: <i>1630</i> Company: <i>SA</i> Method of Shipment: <i>36137</i>					
Relinquished by: <i>Burns</i> Date: <i>9/18/25</i> Time: <i>1630</i> Company: <i>SA</i>					
Relinquished by: <i>Burns</i> Date: <i>9/18/25</i> Time: <i>1630</i> Company: <i>SA</i>					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: <i>36137</i>					

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8789-1

SDG Number: 03C1558741

Login Number: 8789

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8789-1

SDG Number: 03C1558741

Login Number: 8789

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 09/15/25 09:06 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

September 12, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 342 BTS - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 09/10/25 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 01 (H255680-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2025	ND	1.95	97.6	2.00	0.930	
Toluene*	<0.050	0.050	09/11/2025	ND	1.91	95.7	2.00	1.06	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.92	95.9	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.85	97.6	6.00	1.69	
Total BTX	<0.300	0.300	09/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6200	16.0	09/11/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 02 (H255680-02)**

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	09/11/2025	ND	1.95	97.6	2.00	0.930	
Toluene*	<0.050	0.050	09/11/2025	ND	1.91	95.7	2.00	1.06	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.92	95.9	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.85	97.6	6.00	1.69	
Total BTEX	<0.300	0.300	09/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 03 (H255680-03)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696	
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20	
Total BTEx	<0.300	0.300	09/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 04 (H255680-04)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696		
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20		
Total BTEx	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 05 (H255680-05)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696		
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 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	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 06 (H255680-06)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696		
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 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	16.0	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	199	99.4	200	0.693	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	200	100	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 07 (H255680-07)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696		
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20		
Total BTEx	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2025	ND	183	91.6	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/12/2025	ND	184	91.9	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	09/12/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 09/10/2025  
 Reported: 09/12/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 09/10/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS 08 (H255680-08)**

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	09/11/2025	ND	1.99	99.6	2.00	0.696		
Toluene*	<0.050	0.050	09/11/2025	ND	1.98	99.1	2.00	1.95		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	1.91	95.3	2.00	1.54		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	5.61	93.5	6.00	1.20		
Total BTEx	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2025	ND	183	91.6	200	1.68	
DRO >C10-C28*	<10.0	10.0	09/12/2025	ND	184	91.9	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	09/12/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <i>Cardinal LLC</i>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> <i>Henry Bruck</i>		<b>P.O. #:</b>											
<b>Address:</b> <i>601 N. McCurtain St, Suite 400</i>		<b>Company:</b> <i>XTC Energy Inc</i>											
<b>City:</b> <i>Midland</i>		<b>Attn:</b> <i>Leatha Brown</i>											
<b>State:</b> <i>TX</i>		<b>Address:</b> <i>3104 E. Brown St</i>											
<b>Zip:</b> <i>79701</i>		<b>City:</b> <i>Midland</i>											
<b>Phone #:</b> <i>432-296-0627</i>		<b>State:</b> <i>NM</i>											
<b>Fax #:</b>		<b>Zip:</b> <i>88220</i>											
<b>Project #:</b> <i>0361558741</i>		<b>Project Owner:</b> <i>XTD</i>											
<b>Project Name:</b> <i>PLN 342 0305</i>		<b>City:</b> <i>Midland</i>											
<b>Project Location:</b> <i>32.20686, -103.85801</i>		<b>State:</b> <i>NM</i>											
<b>Sample Name:</b> <i>Green Area</i>		<b>Phone #:</b>											
<b>Fax #:</b>													
<b>FOR LAB USE ONLY</b>													
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>			<b>PRESERV.</b>	<b>SAMPLING</b>					
				<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>	<b>SLUDGE</b>	<b>OTHER :</b>	<b>ACID/BASE:</b>	<b>ICE / COOL</b>	<b>OTHER :</b>	
<i>HAS508</i>	<i>5501</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5502</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5503</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5504</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5505</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5506</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5507</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
	<i>5508</i>	<i>✓</i>	<i>1</i>	<i>✓</i>									
<b>PLEASE NOTE:</b> 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.													
<b>Relinquished By:</b>	<b>Date:</b> <i>9/10/25</i>	<b>Received By:</b>	<b>Date:</b> <i>9/10/25</i>										
<b>Relinquished By:</b> <i>Green</i>	<b>Date:</b> <i>9/10/25</i>	<b>Received By:</b> <i>Leatha Brown</i>	<b>Date:</b> <i>9/10/25</i>										
<b>Delivered By:</b> (Circle One)	<b>Observed Temp. °C</b>	<b>Corrected Temp. °C</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b> (Initials)									
<i>UPS</i>	<i>19.0</i>	<i>19.0</i>	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	<i>LB</i>									
<b>Thermometer ID #140</b>	<b>Correction Factor +0.3°C</b>	<b>Turnaround Time:</b> <i>48hr</i>	<b>Standard</b> <input checked="" type="checkbox"/>	<b>Bacteria (only)</b> <input checked="" type="checkbox"/>	<b>Sample Condition</b>								
<i>48hr</i>			<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	<input checked="" type="checkbox"/> Observed Temp. °C									
<b>REMARKS:</b> <i>Incident # - ?</i>													
<i>Leatha Brown - ?</i>													
<i>Custom Seal</i>													



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

October 03, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 342 BTS - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 10/02/25 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/02/2025  
 Reported: 10/03/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 10/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 01 0.25 (H256158-01)**

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	10/02/2025	ND	1.82	90.8	2.00	23.2	
Toluene*	<0.050	0.050	10/02/2025	ND	1.89	94.6	2.00	16.8	
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	11.4	
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.84	97.3	6.00	9.93	
Total BTEX	<0.300	0.300	10/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	10/03/2025	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	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	21.7	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.1 % 39.9-141

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\*=Accredited Analyte

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



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/02/2025  
 Reported: 10/03/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 10/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 02 0.25 (H256158-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2025	ND	1.82	90.8	2.00	23.2	
Toluene*	<0.050	0.050	10/02/2025	ND	1.89	94.6	2.00	16.8	
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	11.4	
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.84	97.3	6.00	9.93	
Total BTX	<0.300	0.300	10/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/03/2025	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	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	65.4	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	25.7	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.3 % 39.9-141

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\*=Accredited Analyte

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



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**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/02/2025  
 Reported: 10/03/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 10/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 03 0.25 (H256158-03)**

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	10/02/2025	ND	1.82	90.8	2.00	23.2		
Toluene*	<0.050	0.050	10/02/2025	ND	1.89	94.6	2.00	16.8		
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	11.4		
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.84	97.3	6.00	9.93		
Total BTEx	<0.300	0.300	10/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	10/03/2025	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	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	<10.0	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.0 % 39.9-141

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



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/02/2025  
 Reported: 10/03/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20686, -103.85801

Sampling Date: 10/01/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS 04 0.25 (H256158-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2025	ND	1.82	90.8	2.00	23.2		
Toluene*	<0.050	0.050	10/02/2025	ND	1.89	94.6	2.00	16.8		
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	11.4		
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.84	97.3	6.00	9.93		
Total BTEX	<0.300	0.300	10/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	10/03/2025	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	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	<10.0	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.3 % 39.9-141

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



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

**Analytical Results For:**

ENSOLUM, LLC  
JEREMY REICH  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 10/02/2025  
Reported: 10/03/2025  
Project Name: PLU 342 BTS - SPILLS  
Project Number: 03C1558741  
Project Location: XTO 32.20686, -103.85801

Sampling Date: 10/01/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 05 0.25 (H256158-05)**

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	10/02/2025	ND	1.82	90.8	2.00	23.2		
Toluene*	<0.050	0.050	10/02/2025	ND	1.89	94.6	2.00	16.8		
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	11.4		
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.84	97.3	6.00	9.93		
Total BTEX	<0.300	0.300	10/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	10/03/2025	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	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	<10.0	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.1 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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





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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- ND               Analyte NOT DETECTED at or above the reporting limit
- RPD              Relative Percent Difference
- \*\*                Samples not received at proper temperature of 6°C or below.
- \*\*\*              Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>													
Company Name: Ensolum, LLC												P.O. #:													
Project Manager: Jeremy Reich												Company: XTO Energy, Inc													
Address: 601 N Martenfeld Street, Suite 400												Attn: Colton Brown													
City: Midland												State: TX Zip: 79701													
Phone #: (432) 296-0627												Fax #:													
Project #: 03C1558741												Project Owner: XTO Energy													
Project Name: PLU 342 Battery												- SPILLS													
Project Location: 32.20676, -103.85883												City: Carlsbad													
												State: NM Zip: 88220													
Sample Name: Trevor Wargo												Phone #:													
FOR LAB USE ONLY												Fax #:													
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX						PRESERV		SAMPLING									
								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE							TIME	
H25Z158		CS01		0.25		C1										10/01/25		11:34		TPH 8015 BTX 8021 Chloride 4500					
1		CS02														12:45									
2		CS03														12:35									
3		CS04														13:18									
4		CS05														12:49									
5																				TBL					

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: _____				Date: 10-2-25				Received By: _____				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:			
Relinquished By: _____				Time: 1410				Received By: _____				All Results are emailed. Please provide Email address: BBeill@ensolum.com, TMorrissey@ensolum.com, twargo@ensolum.com THillard@ensolum.com, KThomason@ensolum.com			
Remarks: Incident Number: MAP2524045876				Cost Center: 1081591001				Turnaround Time: Standard Rush				Bacteria (only) Sample Condition			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp.: °C -0.5				Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Corrected Temp.: °C			
				Corrected Temp.: °C -0.8				<input type="checkbox"/> No <input type="checkbox"/> Yes				Thermometer ID #43 #140			
												Correction Factor: -0.3°C			



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

October 10, 2025

TACOMA MORRISSEY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 342

Enclosed are the results of analyses for samples received by the laboratory on 10/09/25 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
TACOMA MORRISSEY  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	10/09/2025	Sampling Date:	10/08/2025
Reported:	10/10/2025	Sampling Type:	Soil
Project Name:	PLU 342	Sampling Condition:	Cool & Intact
Project Number:	03C1558741	Sample Received By:	Tamara Oldaker
Project Location:	XTO ( 32.204208-103.862151 )		

**Sample ID: SS 10 SURFACE (H256309-01)**

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	10/09/2025	ND	1.85	92.5	2.00	1.11	
Toluene*	<0.050	0.050	10/09/2025	ND	1.90	95.0	2.00	0.820	
Ethylbenzene*	<0.050	0.050	10/09/2025	ND	1.91	95.6	2.00	0.858	
Total Xylenes*	<0.150	0.150	10/09/2025	ND	5.93	98.9	6.00	0.562	
Total BTEX	<0.300	0.300	10/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/10/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2025	ND	211	106	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/09/2025	ND	199	99.7	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	10/09/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.9 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$\begin{array}{c} \text{H} \\ | \\ \text{H} \end{array}$$
[illegible]

**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

CS-0402401b

<small>Officials 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.</small>									
Relinquished By:	Date:		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				
	Time:				All Results are emailed. Please provide Email address: jReich@ensulium.com JBell@ensulium.com, TMorrissey@ensulium.com, JPinson@ensulium.com THillard@ensulium.com, KThomason@ensulium.com twargo@ensulium.com				
Relinquished By:	Date:		Received By:		REMARKS:				
	Time:				Incident Number: nAPP2524045876 Cost Center: 1081591001 GFCM: 48605000				
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Sample Condition		
Corrected Temp. °C	Cool Intact	(Initials)	24h	Rush	Cool Intact	Observed Temp. °C			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #43	140	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C			
Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Correction Factor 0.5°C	140	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C			



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

October 10, 2025

TACOMA MORRISSEY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 342

Enclosed are the results of analyses for samples received by the laboratory on 10/09/25 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
TACOMA MORRISSEY  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received:	10/09/2025	Sampling Date:	10/08/2025
Reported:	10/10/2025	Sampling Type:	Soil
Project Name:	PLU 342	Sampling Condition:	Cool & Intact
Project Number:	03C1558741	Sample Received By:	Alyssa Parras
Project Location:	XTO ( 32.204208-103.862151 )		

**Sample ID: SS11 SURFACE (H256310-01)**

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	10/09/2025	ND	2.05	103	2.00	4.32	
Toluene*	<0.050	0.050	10/09/2025	ND	2.10	105	2.00	4.49	
Ethylbenzene*	<0.050	0.050	10/09/2025	ND	2.15	107	2.00	8.37	
Total Xylenes*	<0.150	0.150	10/09/2025	ND	6.38	106	6.00	6.75	
Total BTEX	<0.300	0.300	10/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2025	ND	209	105	200	5.70	
DRO >C10-C28*	<10.0	10.0	10/10/2025	ND	218	109	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	10/10/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.5 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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

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



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

[illegible]

CS-040240115

Performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
Relinquished By:		Date: 10-9-25	Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:		
Reelinquished By:		Time: 1:30			All Results are emailed. Please provide Email address: jreich@ensolum.com jbellin@ensolum.com, Tmorrissey@ensolum.com, jpinson@ensolum.com TThillard@ensolum.com, KThomason@ensolum.com twargo@ensolum.com		
Date:			REMARKS:				
Time:			Incident Number: nAPP2524045876				
Received By:			Cost Center: 1081591001				
Delivered By: (Circle One)		Observed Temp.: °C -0.10		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials) [Signature]	
Corrected Temp.: °C -0.3		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Sampler - UPS - Bus - Other:		Turnaround Time: 24h		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	
		Thermometer ID #13 #140		Correction Factor 0.3°C +0.3°C		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Observed Temp. °C Corrected Temp. °C	





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

October 08, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 342 BTS - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 10/07/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/07/2025  
 Reported: 10/08/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20676, -103.85883

Sampling Date: 10/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 09 SURFACE (H256238-01)**

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	10/07/2025	ND	1.85	92.6	2.00	1.40	
Toluene*	<0.050	0.050	10/07/2025	ND	2.01	100	2.00	3.48	
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.11	106	2.00	1.57	
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.00	99.9	6.00	1.38	
Total BTEX	<0.300	0.300	10/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/08/2025	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	10/07/2025	ND	209	104	200	4.51	
DRO >C10-C28*	595	10.0	10/07/2025	ND	191	95.6	200	3.10	
EXT DRO >C28-C36	161	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/07/2025  
 Reported: 10/08/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20676, -103.85883

Sampling Date: 10/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 10 SURFACE (H256238-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2025	ND	1.85	92.6	2.00	1.40		
Toluene*	<0.050	0.050	10/07/2025	ND	2.01	100	2.00	3.48		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.00	99.9	6.00	1.38		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/08/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2025	ND	209	104	200	4.51	
DRO >C10-C28*	1760	10.0	10/07/2025	ND	191	95.6	200	3.10	
EXT DRO >C28-C36	690	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 345 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 JEREMY REICH  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/07/2025  
 Reported: 10/08/2025  
 Project Name: PLU 342 BTS - SPILLS  
 Project Number: 03C1558741  
 Project Location: XTO 32.20676, -103.85883

Sampling Date: 10/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SS 11 SURFACE (H256238-03)**

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	10/07/2025	ND	1.85	92.6	2.00	1.40		
Toluene*	<0.050	0.050	10/07/2025	ND	2.01	100	2.00	3.48		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.11	106	2.00	1.57		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.00	99.9	6.00	1.38		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

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	10/08/2025	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	10/08/2025	ND	209	104	200	4.51	
DRO >C10-C28*	<10.0	10.0	10/08/2025	ND	191	95.6	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	10/08/2025	ND					

Surrogate: 1-Chlorooctane 74.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.0 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: ~~Beaux Jennings~~ T&W Jeremy Reich

Address: 601 N Marientfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 210-219-8838 (482) 296-1777 Fax #:

Project #: 03C 4558 741 Project Owner: XTO Energy

Project Name: PLU 342

Project Location: 32.20676, -103.85883

Sampler Name: Trevor Hargis

## BILL TO

P.O. #:

Company: ~~Oxy USA Inc.~~ T&W XTO Energy Inc.  
Attn: ~~Wade Bittner~~ J&W Dale Woodall

Address: 3104 E Greene St.

City: Carlsbad

State: NM Zip: 88220

Phone #: 575-390-2028

Fax #:

## ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H256238	SS09	Surface	9	1								10/06/15	9:48	↓	↓	↓
	SS10											9:50				
	SS11											9:52				

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Relinquished By:

Date: 10-7-25 Received By:

Reinquired By: Dave Mays

Date: 1-3-40 Received By: William A. B. B. B.

Delivered By: (Circle One)

Observed Temp. °C 33

Sampler - UPS - Bus - Other:

Corrected Temp. °C 36

Sample Condition

Cool Intact ☒ Yes ☐ No

Checked By: (Initials)

Turnaround Time: 24h

Standard

Bacteria (only) Sample Condition

Corrected Temp. °C

Corrected Temp. °C

Remarks:

Incident number: APP 2524045876

CC: 20821591001

FCM: 98605000



## Appendix E Spill Volume Calculation

---

<b>Location:</b>	<b>PLU 342 Battery</b>		
<b>Spill Date:</b>	<b>8/27/2025</b>		
<b>Incident #:</b>	<b>nAPP2524045876</b>		
<b>Area 1</b>			
Approximate Area =	6211	sq. ft.	
Average Saturation (or depth) of spill =	0.50	inches	
Average Porosity Factor =	0.03		
<b>VOLUME OF LEAK</b>			
Total Crude Oil =		bbls	
Total Produced Water =	51.00	bbls	
<b>TOTAL VOLUME OF LEAK</b>			
Total Crude Oil =		bbls	
Total Produced Water =	51.0	bbls	
<b>TOTAL VOLUME RECOVERED</b>			
Total Crude Oil =		bbls	
Total Produced Water =	50	bbls	

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

QUESTIONS

Action 500309

**QUESTIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  500309
	Action Type:  [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2524045876
Incident Name	NAPP2524045876 POKER LAKE UNIT 342 BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Poker Lake Unit 342 Battery
Date Release Discovered	08/27/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 51 BBL   Recovered: 50 BBL   Lost: 1 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)	Release occurred due to a water pump malfunction, released 50 barrels of produced water into lined containment (50 barrels of produced water was recovered from the lined containment) and 1 barrel of produced water on permeable surface which was unrecovered.

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QUESTIONS, Page 2

Action 500309

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500309
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Ashley McAfee Email: <a href="mailto:ashley.a.mcafee@exxonmobil.com">ashley.a.mcafee@exxonmobil.com</a> Date: 08/28/2025
--	--



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QUESTIONS, Page 3

Action 500309

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  500309
	Action Type:  [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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CONDITIONS

Action 500309

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  500309
	Action Type:  [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	9/2/2025

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 529783

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 529783
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2524045876
Incident Name	NAPP2524045876 POKER LAKE UNIT 342 BATTERY @ E-23-24S-30E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Poker Lake Unit 342 Battery
Date Release Discovered	08/27/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 51 BBL   Recovered: 50 BBL   Lost: 1 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)	Release occurred due to a water pump malfunction, released 50 barrels of produced water into lined containment (50 barrels of produced water was recovered from the lined containment) and 1 barrel of produced water on permeable surface which was unrecovered.

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QUESTIONS, Page 2

Action 529783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	529783
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/25/2025
--	---

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QUESTIONS, Page 3

Action 529783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (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	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	91.1
GRO+DRO (EPA SW-846 Method 8015M)	65.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/27/2025
On what date will (or did) the final sampling or liner inspection occur	11/21/2025
On what date will (or was) the remediation complete(d)	10/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	6342
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	916
What is the estimated volume (in cubic yards) that will be remediated	9
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 4

Action 529783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/25/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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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 529783

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 529783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	508997
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/03/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	1400

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	916
What was the total volume (cubic yards) remediated	9
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6342
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection, assessment, delineation, surface scraping, and soil sampling activities were conducted at the Site to address the August 2025 release of produced water. A liner integrity inspection was conducted on behalf of XTO by Ensolum personnel on November 21, 2025. The results of the inspection indicated that the liner was operating as designed and the release was contained laterally by the steel lined containment walls. Laboratory analytical results for SS09 through SS11 indicated that all COC concentrations were in compliance with the strictest Table I Closure Criteria, successfully showing the extent of the release was wholly contained to the west, south, and east by the steel walls of the lined containment. Impacted soil was removed after the lined containment overflowed from the north. Laboratory analytical results for all waste containing soil remaining in place (CS01 through CS05) indicated all COC concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results, no impacted soil was identified, and no further remediation was required. Removal of soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2524045876.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/25/2025
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Action 529783

QUESTIONS (continued)

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 529783

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  529783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2524045876 Poker Lake Unit 342 Battery, thank you. This Remediation Closure Report is approved.	12/19/2025