



January 15, 2026

**New Mexico Oil Conservation Division**  
1220 South St. Francis Street  
Santa Fe, New Mexico 87505

**Re: Closure Request**  
**PLU Ross Ranch 33-25-30**  
**Incident Number nAPP2530730945**  
**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 and delineation completed at the PLU Ross Ranch 33-25-30 (Site) following a release of produced water within a lined containment. Based on the liner integrity inspection and delineation activities, XTO is submitting this *Closure Request*, describing liner integrity inspection and delineation activities that have occurred and requesting no further action for Incident Number nAPP2530730945.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit D, Section 33, Township 25 South, Range 30 East in Eddy County, New Mexico (32.09282°, -103.89218°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 30, 2025, failure of a produced water line resulted in the release of 20 barrels (bbls) of produced water into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluid was recovered. The line was repaired and returned to service. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) and an Initial C-141 Application (C-141) on November 3, 2024. The release was assigned Incident Number nAPP2530730945.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on water wells drilled near the Site for determination of regional groundwater depth. On January 17, 2015, a water well (C-3832) was drilled 510 feet north of the Site utilizing air rotary. Soil boring C-3832 was drilled to a depth of 805 feet bgs. Groundwater was encountered at 277 feet depth during drilling activities. The Well Record and Log is included in Appendix A.

XTO Energy, Inc.  
Closure Request  
PLU Ross Ranch 33-25-30

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

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## LINER INTEGRITY INSPECTION ACTIVITIES

After a review of the C-141, internal documents, and initial release photographs, it was confirmed the release occurred within the lined containment. The lined containment was cleaned of all debris, power washed and a 48-hour advance notice of the liner inspection was submitted to the NMOCD on November 4, 2025. On November 6, 2025, the lined containment was inspected by Ensolum personnel and was determined to contain a small tear. Delineation to determine the extent of the release was warranted. A Site map of the lined containment is included in Figure 2. Photographic documentation of the inspection is included in Appendix B.

## DELINeATION SOIL SAMPLING ACTIVITIES

On December 11, 2025, Ensolum personnel were at the Site to oversee delineation activities. Four delineation soil samples (SS01 through SS04) were collected around the lined containment from the surface to assess the lateral extent of the release. Borehole, BH01, was advanced via hand auger to a terminal depth of 1-foot bgs in the location of the tear in the liner. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization device (PID), TPH utilizing a Petroflag, and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the borehole were logged on a lithologic/soil sampling log, which is included as Appendix C. The 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.

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 Environmental Testing Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

XTO Energy, Inc.  
Closure Request  
PLU Ross Ranch 33-25-30

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COCs were in compliance with Site Closure Criteria and the reclamation standards, confirming the release remained within the lined containment. Delineation soil samples from borehole BH01 indicated all COCs were in compliance with Site Closure Criteria and the reclamation standards. Laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are included in Appendix D.

## CLOSURE REQUEST

Liner integrity inspection and delineation activities were conducted at the Site to address the October 30, 2025, release of produced water. Laboratory analytical results for the delineation soil samples, collected in the liner tear, indicated that all COC concentrations were compliant with the Site Closure Criteria and the reclamation standards. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO has patched the tear in the liner following completion of delineation activities.

Delineation of potential impacts at this Site determined no soil that exceeded Site Closure Criteria or the reclamation standards were located below the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2530730945.

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**



Kara Naegeli  
Project Geologist



Tacoma Morrissey  
Associate Principal

cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM

### Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Site Map
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E Spill Volume Calculation



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## FIGURES

**Legend**

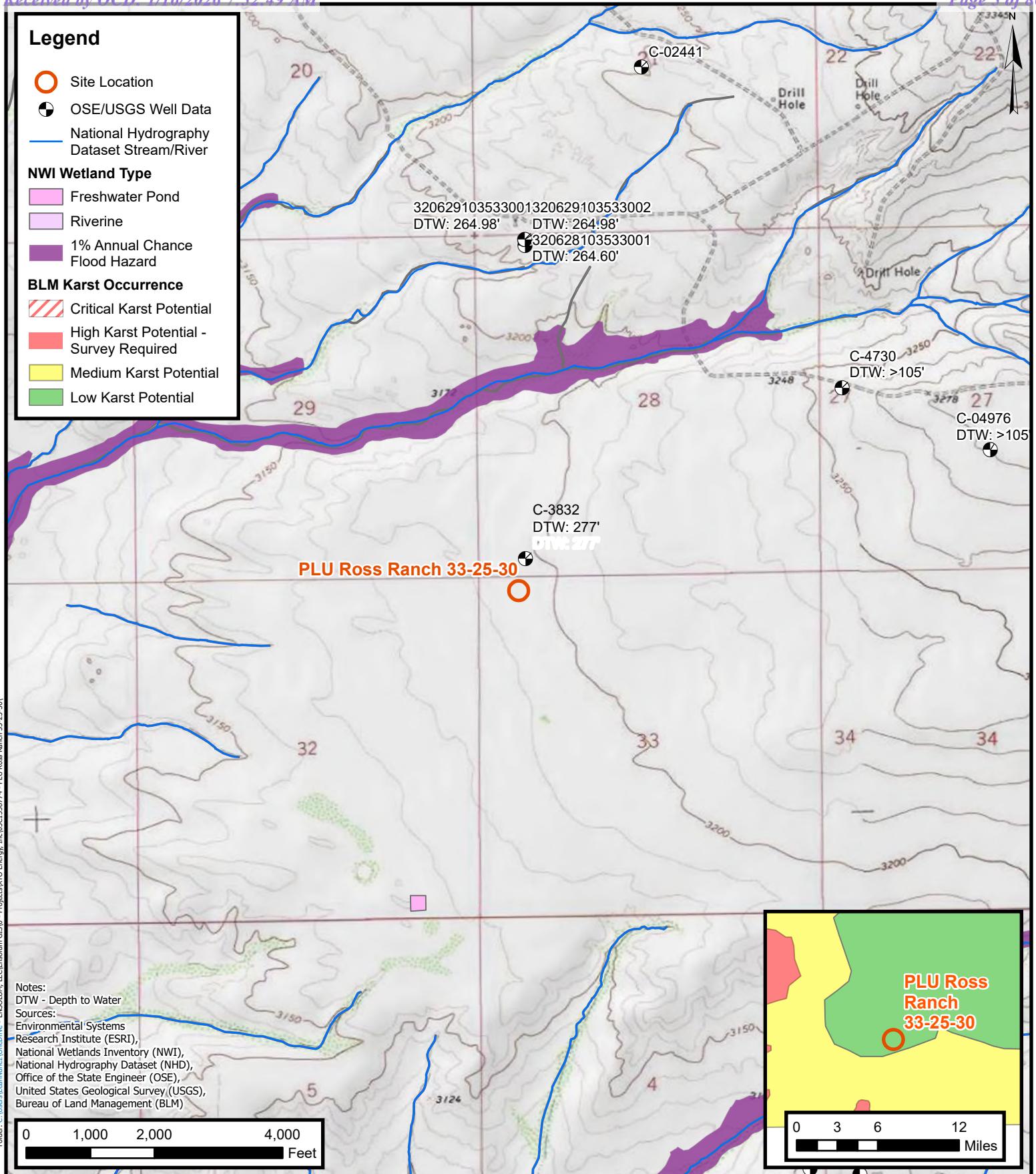
- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River

**NWI Wetland Type**

- Freshwater Pond
- Riverine
- 1% Annual Chance Flood Hazard

**BLM Karst Occurrence**

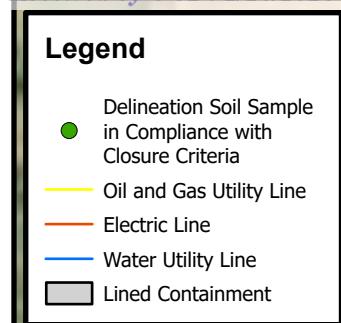
- Critical Karst Potential
- High Karst Potential - Survey Required
- Medium Karst Potential
- Low Karst Potential

**Site Receptor Map**

XTO Energy, Inc  
PLU Ross Ranch 33-25-30  
Incident Number: nAPP2530730945  
Unit D, Section 33, T 25S, R 30E  
Eddy County, New Mexico



**FIGURE**  
**1**



## Delineation Soil Sample Locations

XTO Energy, Inc  
PLU Ross Ranch 33-25-30  
Incident Number: nAPP2530730945  
Unit D, Section 33, T 25S, R 30E  
Eddy County, New Mexico

**FIGURE**  
**2**



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## TABLES



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU Ross Ranch 33-25-30  
XTO Energy, Inc  
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	12/11/2025	Surface	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	17.8
SS02	12/11/2025	Surface	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	26.3
SS03	12/11/2025	Surface	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	95.3
SS04	12/11/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11.0
BH01	12/11/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	12.5
BH01	12/11/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	24.9

## 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



# 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 NUMBER (WELL NUMBER) POD-1 <i>Renumbered C-3832-POD 2</i>			OSE FILE NUMBER(S) C 3782 <i>(exploratory) Renumbered C-3832</i>			
	WELL OWNER NAME(S) BOPCO, L.P.			PHONE (OPTIONAL) (817) 390-8662			
	WELL OWNER MAILING ADDRESS 201 N Main St Suite 2900			CITY <b>Fort Worth</b> STATE <b>TX</b> ZIP <b>76102</b>			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	05	MINUTES 40.1	SECONDS N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	53	32.2	W	
	* DATUM REQUIRED: WGS 84						
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW1/4SE1/4SW1/4SW1/4 of Section 28, Township 25 South, Range 30 East, in the NE corner of a well pad.						
	LICENSE NUMBER 331		NAME OF LICENSED DRILLER Joel H. Stewart			NAME OF WELL DRILLING COMPANY SBQ Drilling, LLC	
	DRILLING STARTED 01-16-15	DRILLING ENDED 01-17-15	DEPTH OF COMPLETED WELL (FT) 805	BORE HOLE DEPTH (FT) ±805	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 277		
DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
DEPTH (feet bg)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
FROM	TO						
0	270	14.75	AS1M A53B	Welded	8.625	0.322	1/2
270	805	14.75	304 Stainless Steel	Welded	8.625	0.25	1/16
0	15	19	AS1M A53B	---	16	0.25	1/2
DEPTH (feet bg)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL			AMOUNT (cubic feet)	METHOD OF PLACEMENT
FROM	TO						
0	120	14.75	Sand Mix Ready Mix			90.36	grav. tremie meas.
120	170	14.75	Hydrated Bentonite Chips			35.90	grav. tremie meas.
170	805	14.75	6/9 Silica Sand			455.95	Tremie Pipe
FOR OSE INTERNAL USE <i>Renumbered from C-3782-POD 1</i>							
FILE NUMBER <i>C-3832</i>			POD NUMBER <i>POD 2</i>			TRN NUMBER <i>555125</i>	
LOCATION <i>25.30.28.3343</i>						PAGE 1 OF 2	
WR-20 WELL RECORD & LOG (Version 06/08/2012)							

DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
FROM	TO				
0	30	30	Cemented Sand, light tan, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
30	40	10	Sandy Silt, light brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
40	60	20	Sandy clay, reddish brown	<input type="radio"/> Y <input type="radio"/> N	
60	80	20	Silty Sand, light brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
80	250	170	Fine to Medium Sand, light tan, sub-angular to rounded	<input type="radio"/> Y <input type="radio"/> N	
250	260	10	Clayey Sand, brown, sub-angular	<input type="radio"/> Y <input type="radio"/> N	
260	320	60	Fine Sand, light tan, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
320	380	60	Silty Sand, brownish gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
380	410	30	Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
410	530	120	Clayey Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
530	590	60	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
590	600	10	Clayey Fine Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
600	630	30	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
630	650	20	Clayey Sand, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
650	700	50	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
700	710	10	Clayey Sand, brown and gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
710	760	50	Sandy Clay, dark gray, sub-angular	<input checked="" type="radio"/> Y <input type="radio"/> N	
760	770	10	Clay, 75% gray, 25% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
770	780	10	Clay, 50% gray, 50% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
780	790	10	Clay, 25% gray, 75% red	<input checked="" type="radio"/> Y <input type="radio"/> N	
790	805	15	Sandy Clay, Grayish red, 10% white sand.	<input checked="" type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP <input checked="" type="radio"/> AIR LIFT <input type="radio"/> BAILER <input checked="" type="radio"/> OTHER - SPECIFY: TBD by pump test				TOTAL ESTIMATED WELL YIELD (gpm): TBD	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD
	MISCELLANEOUS INFORMATION: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Silverio Galindo, Gabriel Armijo, Pedro Pizano		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:		
	 SIGNATURE OF DRILLER / PRINT SIGHNEE NAME		2-13-15 DATE

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/08/2012)		
FILE NUMBER	C-3832	POD NUMBER	POD 2	TRN NUMBER	555125
LOCATION	25.30.28.3343			PAGE 2 OF 2	

## Locator Tool Report

### **General Information:**

Application ID:27      Date: 05-28-2015      Time: 12:01:24

WR File Number: C-03782-POD1  
Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD  
Applicant Last Name: RENUMBERED C-3832-POD2

GW Basin: CARLSBAD  
County: EDDY

Critical Management Area Name(s): NONE  
Special Condition Area Name(s): NONE  
Land Grant Name: NON GRANT

### **PLSS Description (New Mexico Principal Meridian):**

SW 1/4 of SE 1/4 of SW 1/4 of SW 1/4 of Section 28, Township 25S, Range 30E.

### **Coordinate System Details:**

#### **Geographic Coordinates:**

Latitude:	32 Degrees	5 Minutes	40.1 Seconds	N
Longitude:	103 Degrees	53 Minutes	32.2 Seconds	W

#### **Universal Transverse Mercator Zone: 13N**

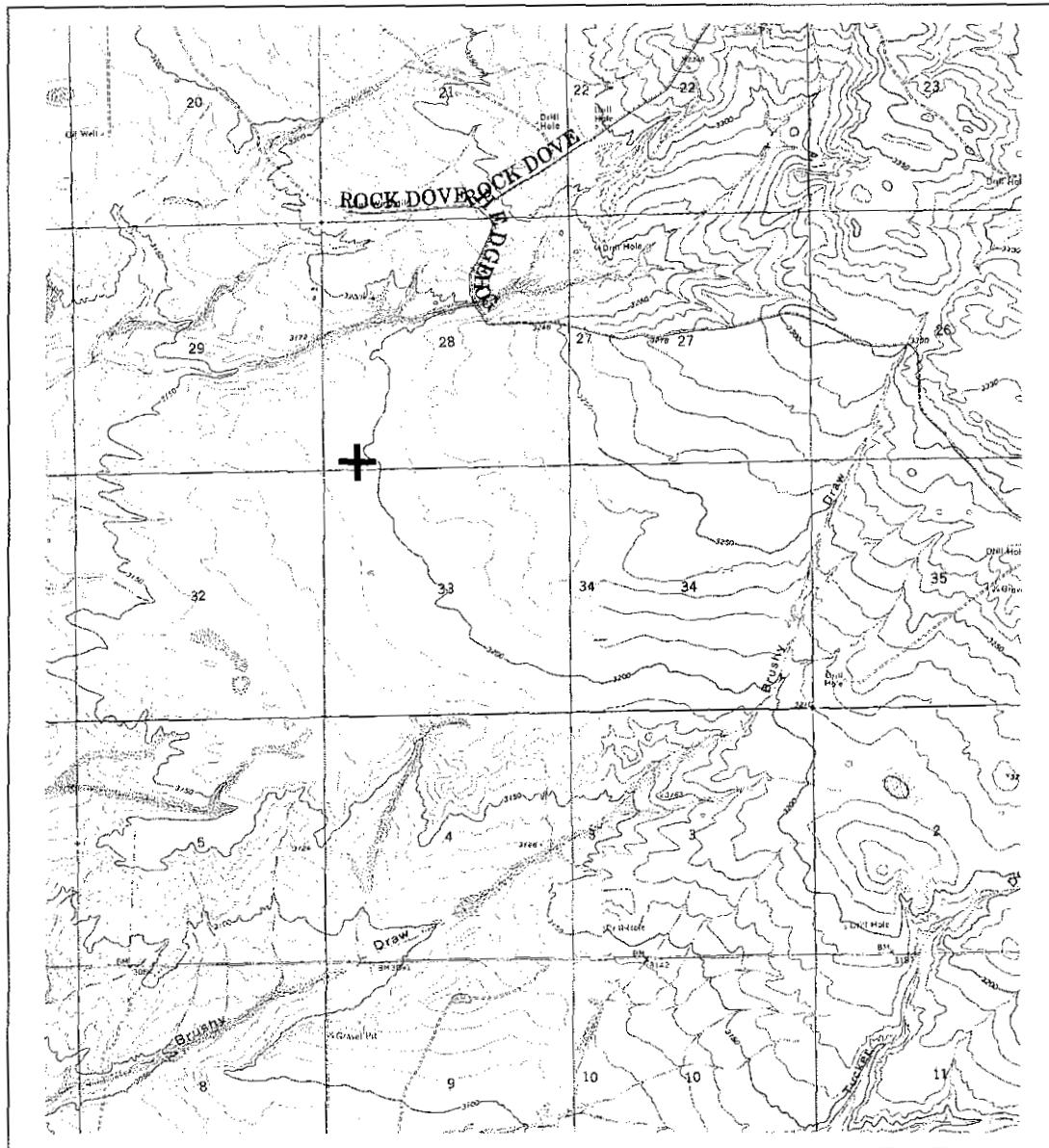
NAD 1983(92) (Meters)	N: 3,551,444	E: 604,526
NAD 1983(92) (Survey Feet)	N: 11,651,697	E: 1,983,348
NAD 1927 (Meters)	N: 3,551,243	E: 604,573
NAD 1927 (Survey Feet)	N: 11,651,036	E: 1,983,505

#### **State Plane Coordinate System Zone: New Mexico East**

NAD 1983(92) (Meters)	N: 121,428	E: 206,630
NAD 1983(92) (Survey Feet)	N: 398,385	E: 677,920
NAD 1927 (Meters)	N: 121,410	E: 194,077
NAD 1927 (Survey Feet)	N: 398,327	E: 636,734

## **NEW MEXICO OFFICE OF STATE ENGINEER**

## Locator Tool Report



WR File Number: C-03782-POD1 Scale: 1:47,832

Northing/Easting: UTM83(92) (Meter): N: 3,551,444 E: 604,526

Northing/Easting: SPCS83(92) (Feet): N: 398,385 E: 677,920

## GW Basin: Carlsbad



## APPENDIX B

### Photographic Log

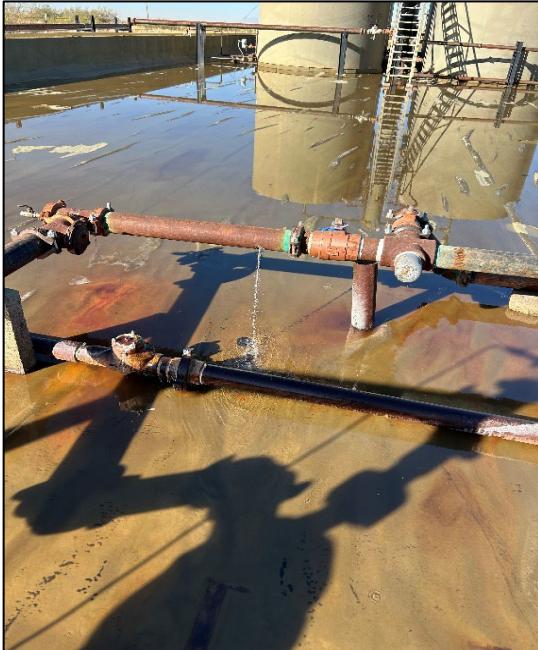


### Photographic Log

XTO Energy, Inc

PLU Ross Ranch 33-25-30

Incident Number: nAPP2530730945



Photograph: 1

Date: 10/30/2025

Description: Initial release

View: Direct



Photograph: 2

Date: 11/6/2025

Description: Well Pad sign

View: South



Photograph: 3

Date: 11/6/2025

Description: Inspection activities

View: Northeast



Photograph: 4

Date: 11/6/2025

Description: Inspection activities

View: Northwest

**Photographic Log**

XTO Energy, Inc

PLU Ross Ranch 33-25-30

Incident Number: nAPP2530730945



Photograph: 5

Date: 12/11/2025

Description: Lateral delineation activities, SS01

View: Southwest

Photograph: 6

Date: 12/11/2025

Description: Lateral delineation activities, SS03

View: Southeast



Photograph: 7

Date: 12/11/2025

Description: Vertical delineation activities, BH01 at 1'

View: South

Photograph: 8

Date: 12/11/2025

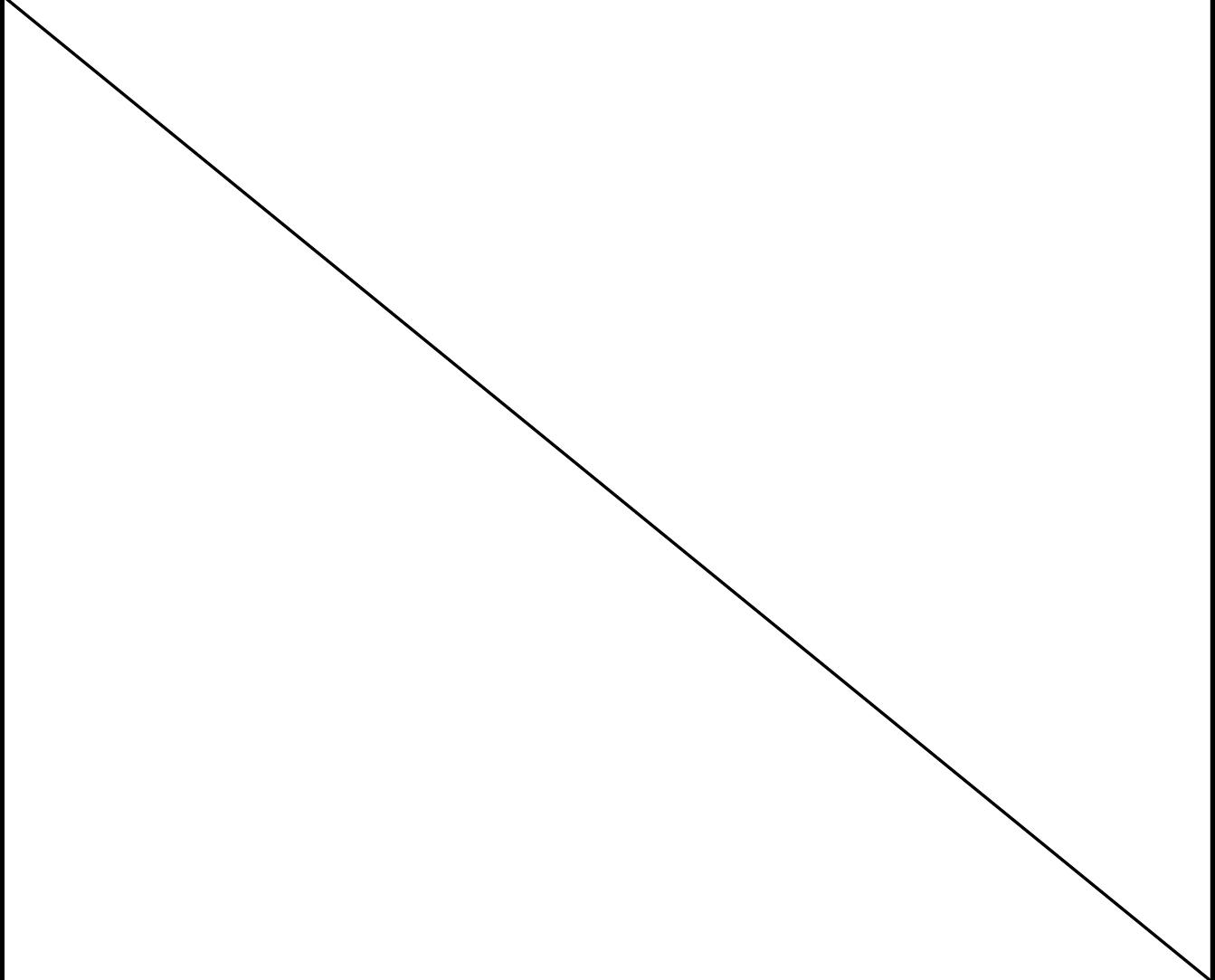
Description: Sealed BH01 post delineation

View: North



## APPENDIX C

### Lithologic Soil Sampling Logs

 <b>ENSOLUM</b>								Sample Name: BH01	Date: 12/11/2025
								Site Name: PLU Ross Ranch 33-25-30	
								Incident Number: nAPP2530730945	
								Job Number: 03C1558774	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: ER	Method: Hand Auger
Coordinates: 32.092977, -103.892448								Hole Diameter: 4"	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. A 40% chloride correction factor is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	<179	1.4	N	BH01	0.5	0	CCHE	(0-0.5') CALICHE, tan, fine grained, some sand	
Dry	<179	1.7	N	BH01	1	1	SP	(0.5'-1') SAND, red, fine grained	
Total Depth @ 1-foot bgs									
									



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## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

1

2

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14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kara Naegeli

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/19/2025 5:08:20 PM

## JOB DESCRIPTION

PLU ROSS RANCH 33-25-30

03C1558774

## JOB NUMBER

890-9224-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.

# 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



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

Generated  
12/19/2025 5:08:20 PM

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Laboratory Job ID: 890-9224-1  
SDG: 03C1558774

## Table of Contents

Cover Page .....	1
Table of Contents .....	3
Definitions/Glossary .....	4
Case Narrative .....	5
Client Sample Results .....	6
Surrogate Summary .....	10
QC Sample Results .....	11
QC Association Summary .....	15
Lab Chronicle .....	17
Certification Summary .....	19
Method Summary .....	20
Sample Summary .....	21
Chain of Custody .....	22
Receipt Checklists .....	24

## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

### Qualifiers

#### GC VOA

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

#### GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
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

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## Case Narrative

Client: Ensolum  
Project: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1

Job ID: 890-9224-1

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### Job Narrative 890-9224-1

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 12/12/2025 8:55 AM. 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 1.8°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-9224-1), SS 02 (890-9224-2), SS 03 (890-9224-3) and SS 04 (890-9224-4).

### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-126789 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-126789/20).

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

### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-126638/2-A) and (LCSD 880-126638/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-9223-A-12-B MS). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

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 ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

**Client Sample ID: SS 01**  
Date Collected: 12/11/25 15:35  
Date Received: 12/12/25 08:55  
Sample Depth: SURFACE

**Lab Sample ID: 890-9224-1**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/25 11:12	12/16/25 17:34	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		106		70 - 130		12/16/25 11:12	12/16/25 17:34	1
1,4-Difluorobenzene (Surr)		99		70 - 130		12/16/25 11:12	12/16/25 17:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/16/25 17:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			12/19/25 15:59	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	<50.1	U	50.1	mg/Kg		12/15/25 09:42	12/19/25 15:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		12/15/25 09:42	12/19/25 15:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		12/15/25 09:42	12/19/25 15:59	1
<b>Surrogate</b>								
1-Chlorooctane	108		70 - 130			12/15/25 09:42	12/19/25 15:59	1
<i>o</i> -Terphenyl	111		70 - 130			12/15/25 09:42	12/19/25 15:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		9.94	mg/Kg			12/17/25 00:55	1

**Client Sample ID: SS 02**

Date Collected: 12/11/25 14:32  
Date Received: 12/12/25 08:55  
Sample Depth: SURFACE

**Lab Sample ID: 890-9224-2**  
Matrix: Solid

**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		12/16/25 11:12	12/16/25 17:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/16/25 11:12	12/16/25 17:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/16/25 11:12	12/16/25 17:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/16/25 11:12	12/16/25 17:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/16/25 11:12	12/16/25 17:55	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/16/25 11:12	12/16/25 17:55	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		106		70 - 130		12/16/25 11:12	12/16/25 17:55	1

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

**Client Sample ID: SS 02**  
Date Collected: 12/11/25 14:32  
Date Received: 12/12/25 08:55  
Sample Depth: SURFACE

**Lab Sample ID: 890-9224-2**  
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	12/16/25 11:12	12/16/25 17:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/16/25 17:55	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			12/19/25 16:14	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		12/15/25 09:42	12/19/25 16:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/25 09:42	12/19/25 16:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/25 09:42	12/19/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	12/15/25 09:42	12/19/25 16:14	1
o-Terphenyl	116		70 - 130	12/15/25 09:42	12/19/25 16:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.3		9.90	mg/Kg			12/17/25 01:00	1

**Client Sample ID: SS 03****Lab Sample ID: 890-9224-3**

Matrix: Solid

Date Collected: 12/11/25 12:40  
Date Received: 12/12/25 08:55  
Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 18:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 18:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 18:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/16/25 11:12	12/16/25 18:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 18:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/25 11:12	12/16/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/16/25 11:12	12/16/25 18:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/16/25 11:12	12/16/25 18:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/16/25 18:15	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			12/19/25 16:30	1

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## Client Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

## Client Sample ID: SS 03

## Lab Sample ID: 890-9224-3

Matrix: Solid

Date Collected: 12/11/25 12:40

Date Received: 12/12/25 08:55

Sample Depth: SURFACE

## 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		12/15/25 09:42	12/19/25 16:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/15/25 09:42	12/19/25 16:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/15/25 09:42	12/19/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			12/15/25 09:42	12/19/25 16:30	1
o-Terphenyl	126		70 - 130			12/15/25 09:42	12/19/25 16:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		9.92	mg/Kg			12/17/25 01:15	1

## Client Sample ID: SS 04

## Lab Sample ID: 890-9224-4

Matrix: Solid

Date Collected: 12/11/25 13:20

Date Received: 12/12/25 08:55

Sample Depth: SURFACE

## 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		12/16/25 11:12	12/16/25 18:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 18:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 18:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/25 11:12	12/16/25 18:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 18:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/25 11:12	12/16/25 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/16/25 11:12	12/16/25 18:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/25 11:12	12/16/25 18:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/16/25 18:35	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			12/19/25 16:45	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		12/15/25 09:42	12/19/25 16:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/25 09:42	12/19/25 16:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/25 09:42	12/19/25 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			12/15/25 09:42	12/19/25 16:45	1
o-Terphenyl	109		70 - 130			12/15/25 09:42	12/19/25 16:45	1

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## Client Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

## Client Sample ID: SS 04

Lab Sample ID: 890-9224-4

Matrix: Solid

Date Collected: 12/11/25 13:20  
 Date Received: 12/12/25 08:55

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		9.94	mg/Kg			12/17/25 01:20	1

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## Surrogate Summary

Client: Ensolum

Job ID: 890-9224-1

Project/Site: PLU ROSS RANCH 33-25-30

SDG: 03C1558774

## 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)									
890-9224-1	SS 01	106	99									
890-9224-2	SS 02	106	98									
890-9224-3	SS 03	104	99									
890-9224-4	SS 04	105	98									
890-9231-A-21-G MS	Matrix Spike	105	95									
890-9231-A-21-H MSD	Matrix Spike Duplicate	100	97									
LCS 880-126837/1-A	Lab Control Sample	89	101									
LCSD 880-126837/2-A	Lab Control Sample Dup	101	96									
MB 880-126837/5-A	Method Blank	94	91									

## 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)									
890-9223-A-12-B MS	Matrix Spike	121	144 S1+									
890-9223-A-12-C MSD	Matrix Spike Duplicate	119	129									
890-9224-1	SS 01	108	111									
890-9224-2	SS 02	120	116									
890-9224-3	SS 03	122	126									
890-9224-4	SS 04	109	109									
LCS 880-126638/2-A	Lab Control Sample	127	131 S1+									
LCSD 880-126638/3-A	Lab Control Sample Dup	126	150 S1+									
MB 880-126638/1-A	Method Blank	116	102									

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

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

Lab Sample ID: MB 880-126837/5-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 126837

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Benzene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Toluene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	94		70 - 130			12/16/25 08:00		12/16/25 11:01		1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/16/25 08:00		12/16/25 11:01		1

Lab Sample ID: LCS 880-126837/1-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	
	Added	Result	Qualifier							
Benzene	0.100	0.1058		mg/Kg			106	70 - 130		
Toluene	0.100	0.09015		mg/Kg			90	70 - 130		
Ethylbenzene	0.100	0.09289		mg/Kg			93	70 - 130		
m-Xylene & p-Xylene	0.200	0.1822		mg/Kg			91	70 - 130		
o-Xylene	0.100	0.09150		mg/Kg			91	70 - 130		
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	89		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: LCSD 880-126837/2-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Spikes	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier								
Benzene	0.100	0.09865		mg/Kg			99	70 - 130		7	35
Toluene	0.100	0.09508		mg/Kg			95	70 - 130		5	35
Ethylbenzene	0.100	0.1017		mg/Kg			102	70 - 130		9	35
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg			102	70 - 130		11	35
o-Xylene	0.100	0.1024		mg/Kg			102	70 - 130		11	35
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130								

Lab Sample ID: 890-9231-A-21-G MS

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Sample	Sample	Spikes	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00200	U	0.100	0.08210		mg/Kg			82	70 - 130	
Toluene	<0.00200	U	0.100	0.07905		mg/Kg			79	70 - 130	

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

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

Lab Sample ID: 890-9231-A-21-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 126789

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	<0.00200	U	0.100	0.08355		mg/Kg	84	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1640		mg/Kg	82	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08327		mg/Kg	83	70 - 130	

Surrogate	MS	MS	%Recovery	Qualifier	Limits
	Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	105		70 - 130		
1,4-Difluorobenzene (Surr)	95		70 - 130		

Lab Sample ID: 890-9231-A-21-H MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 126789

Prep Batch: 126837

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00200	U	0.100	0.09073		mg/Kg	91	70 - 130		10	35
Toluene	<0.00200	U	0.100	0.08204		mg/Kg	82	70 - 130		4	35
Ethylbenzene	<0.00200	U	0.100	0.08109		mg/Kg	81	70 - 130		3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1597		mg/Kg	80	70 - 130		3	35
o-Xylene	<0.00200	U	0.100	0.08234		mg/Kg	82	70 - 130		1	35

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
	Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	100		70 - 130		
1,4-Difluorobenzene (Surr)	97		70 - 130		

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

Lab Sample ID: MB 880-126638/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 127237

Prep Batch: 126638

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	12/15/25 09:41	12/19/25 07:23		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	12/15/25 09:41	12/19/25 07:23		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	12/15/25 09:41	12/19/25 07:23		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Recovery	Qualifier						
1-Chlorooctane	116		70 - 130			12/15/25 09:41	12/19/25 07:23	1
o-Terphenyl	102		70 - 130			12/15/25 09:41	12/19/25 07:23	1

Lab Sample ID: LCS 880-126638/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 127237

Prep Batch: 126638

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	945.6		mg/Kg	95	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1147		mg/Kg	115	70 - 130	

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

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

Lab Sample ID: LCS 880-126638/2-A

Matrix: Solid

Analysis Batch: 127237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 126638

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
<i>o</i> -Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-126638/3-A

Matrix: Solid

Analysis Batch: 127237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 126638

Analyte		Spike	LCSD	LCSD			%Rec	RPD
		Added	Result	Qualifier	Unit	D	Rec	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	989.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)		1000	1286		mg/Kg		129	70 - 130
<i>Surrogate</i>	<i>LCSD</i>	<i>LCSD</i>						
	%Recovery	Qualifier	Limits					
1-Chlorooctane	126		70 - 130					
<i>o</i> -Terphenyl	150	S1+	70 - 130					

Lab Sample ID: 890-9223-A-12-B MS

Matrix: Solid

Analysis Batch: 127237

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 126638

Analyte	Sample	Sample	Spike	MS	MS		%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	Rec
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	927.7		mg/Kg		93
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1151		mg/Kg		115
<i>Surrogate</i>	<i>MS</i>	<i>MS</i>						
	%Recovery	Qualifier	Limits					
1-Chlorooctane	121		70 - 130					
<i>o</i> -Terphenyl	144	S1+	70 - 130					

Lab Sample ID: 890-9223-A-12-C MSD

Matrix: Solid

Analysis Batch: 127237

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 126638

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	Rec
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	953.8		mg/Kg		95
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1081		mg/Kg		108
<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>						
	%Recovery	Qualifier	Limits					
1-Chlorooctane	119		70 - 130					
<i>o</i> -Terphenyl	129		70 - 130					

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## QC Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-126824/1-A

Matrix: Solid

Analysis Batch: 126877

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			12/16/25 23:36	1

Lab Sample ID: LCS 880-126824/2-A

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	250	240.4		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-126824/3-A

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	Limit
Chloride	250	240.2		mg/Kg		96	90 - 110	0 20

Lab Sample ID: 890-9224-2 MS

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: SS 02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	26.3		248	274.8		mg/Kg		100	90 - 110

Lab Sample ID: 890-9224-2 MSD

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: SS 02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit
Chloride	26.3		248	274.2		mg/Kg		100	90 - 110	0 20

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

## GC VOA

## Analysis Batch: 126789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	8021B	126837
890-9224-2	SS 02	Total/NA	Solid	8021B	126837
890-9224-3	SS 03	Total/NA	Solid	8021B	126837
890-9224-4	SS 04	Total/NA	Solid	8021B	126837
MB 880-126837/5-A	Method Blank	Total/NA	Solid	8021B	126837
LCS 880-126837/1-A	Lab Control Sample	Total/NA	Solid	8021B	126837
LCSD 880-126837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	126837
890-9231-A-21-G MS	Matrix Spike	Total/NA	Solid	8021B	126837
890-9231-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	126837

## Prep Batch: 126837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	5035	10
890-9224-2	SS 02	Total/NA	Solid	5035	11
890-9224-3	SS 03	Total/NA	Solid	5035	12
890-9224-4	SS 04	Total/NA	Solid	5035	13
MB 880-126837/5-A	Method Blank	Total/NA	Solid	5035	14
LCS 880-126837/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-126837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9231-A-21-G MS	Matrix Spike	Total/NA	Solid	5035	
890-9231-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 127131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	Total BTEX	
890-9224-2	SS 02	Total/NA	Solid	Total BTEX	
890-9224-3	SS 03	Total/NA	Solid	Total BTEX	
890-9224-4	SS 04	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 126638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	8015NM Prep	
890-9224-2	SS 02	Total/NA	Solid	8015NM Prep	
890-9224-3	SS 03	Total/NA	Solid	8015NM Prep	
890-9224-4	SS 04	Total/NA	Solid	8015NM Prep	
MB 880-126638/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-126638/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-126638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9223-A-12-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9223-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 127237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	8015B NM	126638
890-9224-2	SS 02	Total/NA	Solid	8015B NM	126638
890-9224-3	SS 03	Total/NA	Solid	8015B NM	126638
890-9224-4	SS 04	Total/NA	Solid	8015B NM	126638
MB 880-126638/1-A	Method Blank	Total/NA	Solid	8015B NM	126638
LCS 880-126638/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	126638

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## QC Association Summary

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

## GC Semi VOA (Continued)

## Analysis Batch: 127237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-126638/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	126638
890-9223-A-12-B MS	Matrix Spike	Total/NA	Solid	8015B NM	126638
890-9223-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	126638

## Analysis Batch: 127320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Total/NA	Solid	8015 NM	
890-9224-2	SS 02	Total/NA	Solid	8015 NM	
890-9224-3	SS 03	Total/NA	Solid	8015 NM	
890-9224-4	SS 04	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 126824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Soluble	Solid	DI Leach	
890-9224-2	SS 02	Soluble	Solid	DI Leach	
890-9224-3	SS 03	Soluble	Solid	DI Leach	
890-9224-4	SS 04	Soluble	Solid	DI Leach	
MB 880-126824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-126824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-126824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9224-2 MS	SS 02	Soluble	Solid	DI Leach	
890-9224-2 MSD	SS 02	Soluble	Solid	DI Leach	

## Analysis Batch: 126877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9224-1	SS 01	Soluble	Solid	300.0	126824
890-9224-2	SS 02	Soluble	Solid	300.0	126824
890-9224-3	SS 03	Soluble	Solid	300.0	126824
890-9224-4	SS 04	Soluble	Solid	300.0	126824
MB 880-126824/1-A	Method Blank	Soluble	Solid	300.0	126824
LCS 880-126824/2-A	Lab Control Sample	Soluble	Solid	300.0	126824
LCSD 880-126824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	126824
890-9224-2 MS	SS 02	Soluble	Solid	300.0	126824
890-9224-2 MSD	SS 02	Soluble	Solid	300.0	126824

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## Lab Chronicle

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

## Client Sample ID: SS 01

Date Collected: 12/11/25 15:35

Date Received: 12/12/25 08:55

## Lab Sample ID: 890-9224-1

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			4.97 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127131	12/16/25 17:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			127320	12/19/25 15:59	SA	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10.00 mL	126638	12/15/25 09:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127237	12/19/25 15:59	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	126877	12/17/25 00:55	CS	EET MID

## Client Sample ID: SS 02

Date Collected: 12/11/25 14:32

Date Received: 12/12/25 08:55

## Lab Sample ID: 890-9224-2

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			4.96 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127131	12/16/25 17:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			127320	12/19/25 16:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	126638	12/15/25 09:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127237	12/19/25 16:14	FC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1			126877	12/17/25 01:00	CS	EET MID

## Client Sample ID: SS 03

Date Collected: 12/11/25 12:40

Date Received: 12/12/25 08:55

## Lab Sample ID: 890-9224-3

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			5.05 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127131	12/16/25 18:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			127320	12/19/25 16:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	126638	12/15/25 09:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127237	12/19/25 16:30	FC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1			126877	12/17/25 01:15	CS	EET MID

## Client Sample ID: SS 04

Date Collected: 12/11/25 13:20

Date Received: 12/12/25 08:55

## Lab Sample ID: 890-9224-4

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			5.00 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127131	12/16/25 18:35	SA	EET MID

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**Lab Chronicle**

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
 SDG: 03C1558774

**Client Sample ID: SS 04****Lab Sample ID: 890-9224-4**

Matrix: Solid

Date Collected: 12/11/25 13:20  
 Date Received: 12/12/25 08:55

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			127320	12/19/25 16:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	126638	12/15/25 09:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127237	12/19/25 16:45	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1			126877	12/17/25 01:20	CS	EET MID

**Laboratory References:**

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

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## Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

### 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

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10  
11  
12  
13  
14

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## Method Summary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1  
SDG: 03C1558774

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

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## Sample Summary

Client: Ensolum

Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9224-1

SDG: 03C1558774

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-9224-1	SS 01	Solid	12/11/25 15:35	12/12/25 08:55	SURFACE	1
890-9224-2	SS 02	Solid	12/11/25 14:32	12/12/25 08:55	SURFACE	2
890-9224-3	SS 03	Solid	12/11/25 12:40	12/12/25 08:55	SURFACE	3
890-9224-4	SS 04	Solid	12/11/25 13:20	12/12/25 08:55	SURFACE	4

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## Chain of Custody



Environment Testing  
Xencor

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) 784-1296  
 Hobbs, NM (575) 332-7550, Carlsbad, NM (575) 988-3199

## 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) 784-1296  
 Hobbs, NM (575) 332-7550, Carlsbad, NM (575) 988-3199





Eurofins Carlsbad

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

## Chain of Custody Record

**Specimen Disposal** / All specimens are to be discarded if samples are retained longer than 4 months

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Unconfirmed Deliverable Benefits

Deliverable 1

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### Custody Seals

Δ Yes Δ

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9224-1

SDG Number: 03C1558774

**Login Number: 9224****List Source: Eurofins Carlsbad****List Number: 1****Creator: Bruns, Shannon****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: 890-9224-1

SDG Number: 03C1558774

**Login Number: 9224****List Source: Eurofins Midland****List Number: 2****List Creation: 12/15/25 09:20 AM****Creator: Laing, Edmundo**

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	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kara Naegeli

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/22/2025 1:33:03 PM

## JOB DESCRIPTION

PLU ROSS RANCH 33-25-30

03C1558774

## JOB NUMBER

890-9225-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.

# 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



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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 ROSS RANCH 33-25-30

Laboratory Job ID: 890-9225-1  
SDG: 03C1558774

# Table of Contents

Cover Page .....	1
Table of Contents .....	3
Definitions/Glossary .....	4
Case Narrative .....	5
Client Sample Results .....	6
Surrogate Summary .....	8
QC Sample Results .....	9
QC Association Summary .....	13
Lab Chronicle .....	15
Certification Summary .....	16
Method Summary .....	17
Sample Summary .....	18
Chain of Custody .....	19
Receipt Checklists .....	21

## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

### Qualifiers

#### GC VOA

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

#### GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
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

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**Case Narrative**

Client: Ensolum  
 Project: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1

**Job ID: 890-9225-1****Eurofins Carlsbad****Job Narrative  
890-9225-1**

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 12/12/2025 8:55 AM. 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 1.8°C.

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 01 (890-9225-1) and BH 01 (890-9225-2).

**GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-126789 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-126789/20).

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

**Diesel Range Organics**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-126639 and analytical batch 880-127324 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

**HPLC/IC**

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 ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

**Client Sample ID: BH 01**  
Date Collected: 12/11/25 11:00  
Date Received: 12/12/25 08:55  
Sample Depth: 0.5

**Lab Sample ID: 890-9225-1**  
Matrix: Solid

**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		12/16/25 11:12	12/16/25 19:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 19:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 19:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/25 11:12	12/16/25 19:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/25 11:12	12/16/25 19:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/25 11:12	12/16/25 19:57	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		103		70 - 130		12/16/25 11:12	12/16/25 19:57	1
1,4-Difluorobenzene (Surr)		94		70 - 130		12/16/25 11:12	12/16/25 19:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/16/25 19:57	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			12/20/25 12:28	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 *1	50.0	mg/Kg		12/15/25 09:44	12/20/25 12:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		12/15/25 09:44	12/20/25 12:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/25 09:44	12/20/25 12:28	1
<b>Surrogate</b>								
1-Chlorooctane	85		70 - 130			12/15/25 09:44	12/20/25 12:28	1
<i>o</i> -Terphenyl	92		70 - 130			12/15/25 09:44	12/20/25 12:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		9.98	mg/Kg			12/17/25 01:35	1

**Client Sample ID: BH 01**

Date Collected: 12/11/25 11:03  
Date Received: 12/12/25 08:55  
Sample Depth: 1

**Lab Sample ID: 890-9225-2**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/25 11:12	12/16/25 20:18	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		104		70 - 130		12/16/25 11:12	12/16/25 20:18	1

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## Client Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

**Client Sample ID: BH 01**  
 Date Collected: 12/11/25 11:03  
 Date Received: 12/12/25 08:55  
 Sample Depth: 1

**Lab Sample ID: 890-9225-2**  
 Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Sur)	98		70 - 130	12/16/25 11:12	12/16/25 20:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/16/25 20:18	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			12/20/25 13:10	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 *1	50.0	mg/Kg		12/15/25 09:44	12/20/25 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		12/15/25 09:44	12/20/25 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/25 09:44	12/20/25 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/15/25 09:44	12/20/25 13:10	1
o-Terphenyl	91		70 - 130	12/15/25 09:44	12/20/25 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		9.98	mg/Kg			12/17/25 01:40	1

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## Surrogate Summary

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

## 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)									
890-9225-1	BH 01	103	94									
890-9225-2	BH 01	104	98									
890-9231-A-21-G MS	Matrix Spike	105	95									
890-9231-A-21-H MSD	Matrix Spike Duplicate	100	97									
LCS 880-126837/1-A	Lab Control Sample	89	101									
LCSD 880-126837/2-A	Lab Control Sample Dup	101	96									
MB 880-126837/5-A	Method Blank	94	91									

## 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)									
890-9225-1	BH 01	85	92									
890-9225-1 MS	BH 01	116	101									
890-9225-1 MSD	BH 01	117	103									
890-9225-2	BH 01	91	91									
LCS 880-126639/2-A	Lab Control Sample	108	101									
LCSD 880-126639/3-A	Lab Control Sample Dup	108	98									
MB 880-126639/1-A	Method Blank	93	87									

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

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

Lab Sample ID: MB 880-126837/5-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 126837

Analyte	MB	MB	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Benzene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Toluene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
o-Xylene	<0.00200	U	0.00200		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg	12/16/25 08:00		12/16/25 11:01		1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	94		70 - 130			12/16/25 08:00		12/16/25 11:01		1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/16/25 08:00		12/16/25 11:01		1

Lab Sample ID: LCS 880-126837/1-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits	
	Added	Result	Qualifier							
Benzene	0.100	0.1058		mg/Kg			106	70 - 130		
Toluene	0.100	0.09015		mg/Kg			90	70 - 130		
Ethylbenzene	0.100	0.09289		mg/Kg			93	70 - 130		
m-Xylene & p-Xylene	0.200	0.1822		mg/Kg			91	70 - 130		
o-Xylene	0.100	0.09150		mg/Kg			91	70 - 130		
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	89		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: LCSD 880-126837/2-A

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Spikes	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier								
Benzene	0.100	0.09865		mg/Kg			99	70 - 130		7	35
Toluene	0.100	0.09508		mg/Kg			95	70 - 130		5	35
Ethylbenzene	0.100	0.1017		mg/Kg			102	70 - 130		9	35
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg			102	70 - 130		11	35
o-Xylene	0.100	0.1024		mg/Kg			102	70 - 130		11	35
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130								

Lab Sample ID: 890-9231-A-21-G MS

Matrix: Solid

Analysis Batch: 126789

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Sample	Sample	Spikes	MS	MS	Result	Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.00200	U	0.100	0.08210		mg/Kg			82	70 - 130	
Toluene	<0.00200	U	0.100	0.07905		mg/Kg			79	70 - 130	

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

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

Lab Sample ID: 890-9231-A-21-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 126789

Prep Type: Total/NA

Prep Batch: 126837

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	<0.00200	U	0.100	0.08355		mg/Kg	84	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1640		mg/Kg	82	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08327		mg/Kg	83	70 - 130	

Surrogate	MS	MS	%Recovery	Qualifier	Limits
	Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	105		70 - 130		
1,4-Difluorobenzene (Surr)	95		70 - 130		

Lab Sample ID: 890-9231-A-21-H MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 126789

Prep Batch: 126837

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00200	U	0.100	0.09073		mg/Kg	91	70 - 130	
Toluene	<0.00200	U	0.100	0.08204		mg/Kg	82	70 - 130	4
Ethylbenzene	<0.00200	U	0.100	0.08109		mg/Kg	81	70 - 130	3
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1597		mg/Kg	80	70 - 130	3
o-Xylene	<0.00200	U	0.100	0.08234		mg/Kg	82	70 - 130	1

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
	Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	100		70 - 130		
1,4-Difluorobenzene (Surr)	97		70 - 130		

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

Lab Sample ID: MB 880-126639/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 127324

Prep Batch: 126639

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	12/15/25 09:44	12/20/25 06:54		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	12/15/25 09:44	12/20/25 06:54		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	12/15/25 09:44	12/20/25 06:54		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Recovery	Qualifier						
1-Chlorooctane	93		70 - 130			12/15/25 09:44	12/20/25 06:54	1
o-Terphenyl	87		70 - 130			12/15/25 09:44	12/20/25 06:54	1

Lab Sample ID: LCS 880-126639/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 127324

Prep Batch: 126639

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg	104	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1198		mg/Kg	120	70 - 130	

Eurofins Carlsbad

## QC Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

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

Lab Sample ID: LCS 880-126639/2-A

Matrix: Solid

Analysis Batch: 127324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 126639

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
<i>o</i> -Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-126639/3-A

Matrix: Solid

Analysis Batch: 127324

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 126639

Analyte		Spike	LCSD	LCSD			%Rec	RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	782.1	*1	mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)		1000	906.5	*1	mg/Kg		91	70 - 130
							28	20
<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>						
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>					
1-Chlorooctane	108		70 - 130					
<i>o</i> -Terphenyl	98		70 - 130					

Lab Sample ID: 890-9225-1 MS

Matrix: Solid

Analysis Batch: 127324

Client Sample ID: BH 01

Prep Type: Total/NA

Prep Batch: 126639

Analyte	Sample	Sample	Spike	MS	MS		%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	824.4		mg/Kg		82
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	962.6		mg/Kg		96
<i>Surrogate</i>	<i>MS</i>	<i>MS</i>						
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>					
1-Chlorooctane	116		70 - 130					
<i>o</i> -Terphenyl	101		70 - 130					

Lab Sample ID: 890-9225-1 MSD

Matrix: Solid

Analysis Batch: 127324

Client Sample ID: BH 01

Prep Type: Total/NA

Prep Batch: 126639

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	838.3		mg/Kg		84
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	973.1		mg/Kg		97
<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>						
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>					
1-Chlorooctane	117		70 - 130					2
<i>o</i> -Terphenyl	103		70 - 130					20

Eurofins Carlsbad

## QC Sample Results

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-126824/1-A

Matrix: Solid

Analysis Batch: 126877

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			12/16/25 23:36	1

Lab Sample ID: LCS 880-126824/2-A

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	250	240.4		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-126824/3-A

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD	Limit
Chloride	250	240.2		mg/Kg		96	90 - 110	0 20

Lab Sample ID: 890-9224-A-2-C MS

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Matrix Spike  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	26.3		248	274.8		mg/Kg		100	90 - 110

Lab Sample ID: 890-9224-A-2-D MSD

Matrix: Solid

Analysis Batch: 126877

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	Limit
Chloride	26.3		248	274.2		mg/Kg		100	90 - 110	0 20

Eurofins Carlsbad

## QC Association Summary

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

## GC VOA

## Analysis Batch: 126789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	8021B	126837
890-9225-2	BH 01	Total/NA	Solid	8021B	126837
MB 880-126837/5-A	Method Blank	Total/NA	Solid	8021B	126837
LCS 880-126837/1-A	Lab Control Sample	Total/NA	Solid	8021B	126837
LCSD 880-126837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	126837
890-9231-A-21-G MS	Matrix Spike	Total/NA	Solid	8021B	126837
890-9231-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	126837

## Prep Batch: 126837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	5035	9
890-9225-2	BH 01	Total/NA	Solid	5035	10
MB 880-126837/5-A	Method Blank	Total/NA	Solid	5035	11
LCS 880-126837/1-A	Lab Control Sample	Total/NA	Solid	5035	12
LCSD 880-126837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	13
890-9231-A-21-G MS	Matrix Spike	Total/NA	Solid	5035	14
890-9231-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 127133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	Total BTEX	
890-9225-2	BH 01	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 126639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	8015NM Prep	
890-9225-2	BH 01	Total/NA	Solid	8015NM Prep	
MB 880-126639/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-126639/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-126639/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9225-1 MS	BH 01	Total/NA	Solid	8015NM Prep	
890-9225-1 MSD	BH 01	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 127324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	8015B NM	126639
890-9225-2	BH 01	Total/NA	Solid	8015B NM	126639
MB 880-126639/1-A	Method Blank	Total/NA	Solid	8015B NM	126639
LCS 880-126639/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	126639
LCSD 880-126639/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	126639
890-9225-1 MS	BH 01	Total/NA	Solid	8015B NM	126639
890-9225-1 MSD	BH 01	Total/NA	Solid	8015B NM	126639

## Analysis Batch: 127484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Total/NA	Solid	8015 NM	
890-9225-2	BH 01	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

## QC Association Summary

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

## HPLC/IC

## Leach Batch: 126824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Soluble	Solid	DI Leach	
890-9225-2	BH 01	Soluble	Solid	DI Leach	
MB 880-126824/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-126824/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-126824/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9224-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-9224-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 126877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9225-1	BH 01	Soluble	Solid	300.0	126824
890-9225-2	BH 01	Soluble	Solid	300.0	126824
MB 880-126824/1-A	Method Blank	Soluble	Solid	300.0	126824
LCS 880-126824/2-A	Lab Control Sample	Soluble	Solid	300.0	126824
LCSD 880-126824/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	126824
890-9224-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	126824
890-9224-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	126824

## Lab Chronicle

Client: Ensolum  
 Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
 SDG: 03C1558774

## Client Sample ID: BH 01

Lab Sample ID: 890-9225-1

Date Collected: 12/11/25 11:00

Matrix: Solid

Date Received: 12/12/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127133	12/16/25 19:57	SA	EET MID
Total/NA	Analysis	8015 NM		1			127484	12/20/25 12:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	126639	12/15/25 09:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127324	12/20/25 12:28	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1			126877	12/17/25 01:35	CS	EET MID

## Client Sample ID: BH 01

Lab Sample ID: 890-9225-2

Date Collected: 12/11/25 11:03

Matrix: Solid

Date Received: 12/12/25 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	126837	12/16/25 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	126789	12/16/25 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			127133	12/16/25 20:18	SA	EET MID
Total/NA	Analysis	8015 NM		1			127484	12/20/25 13:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	126639	12/15/25 09:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	127324	12/20/25 13:10	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	126824	12/16/25 09:47	SA	EET MID
Soluble	Analysis	300.0		1			126877	12/17/25 01:40	CS	EET MID

## Laboratory References:

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

Eurofins Carlsbad

## Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

### **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

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Eurofins Carlsbad

## Method Summary

Client: Ensolum  
Project/Site: PLU ROSS RANCH 33-25-30

Job ID: 890-9225-1  
SDG: 03C1558774

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

Eurofins Carlsbad

## Sample Summary

Client: Ensolum

Job ID: 890-9225-1

Project/Site: PLU ROSS RANCH 33-25-30

SDG: 03C1558774

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9225-1	BH 01	Solid	12/11/25 11:00	12/12/25 08:55	0.5
890-9225-2	BH 01	Solid	12/11/25 11:03	12/12/25 08:55	1

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Eurofins Carlsbad

## Chain of Custody

Environment Testing and Reference



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) 585-2443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Total 200.7 / 6010 200.8 / 6020:

the sample Method(s) and Metal(s) to be analyzed

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Notice, signature of this document and any requisition or samples constitutes a valid purchase order from client company to Eurofins Xerico, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerico will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xerico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerico, but not analyzed. These terms will be enforced unless previously negotiated.

Sect. 21. — *Scutellaria* 19

RECEIVED BY: (Signature) Received by: (Signature)

## Eurofins Carlsbad

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



## Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: N/A		Lab P.M.: Kramer, Jessica		Carrier Tracking No(s): N/A		COC No: 890-6263.1	
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Jessica.Kramer@jet.eurofinsus.com		State of Origin: New Mexico		Page: 1 of 1	
Eurofins Environment Testing South Central		Address: 1211 W. Florida Ave, City: Midland State: Zip: TX 79701		Accreditations Required (See note): NELAP - Texas		Job #: 890-9225-1		Page #: 1	
TAT Requested (days): 12/18/2025		Due Date Requested: 12/18/2025		Total Number of containers: X		Special Instructions/Note: _____		Preservation Codes: _____	
Phone: 432-704-5440(Tel)		PO #: N/A		8015MOD_NM/8015NM_S_Prep(MOD) Full TPH		8015MOD_NM/8015NM_S_Prep(MOD)		8021B/5035FP_Ci4c(MOD) BTEX	
Email: N/A		WO #: N/A		8015MOD_Calce		300_ORGFM_28D/DL_EAHCChloride		Total_BTEX_GCV	
Project Name: PLU ROSS RANCH 33-25-30		Project #: 890000110		Field Filtered Sample (Yes or No): N/A		Performance MS/MS (Yes or No): N/A		Other: N/A	
Site: N/A		SSOW#: N/A		Preservation Code: X		Sample Date		Sample Time	
Sample Identification - Client ID (Lab ID)		Preservation Code: X		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
BH 01 (890-9225-1)		BH 01 (890-9225-2)		12/11/25		11:00		Matrix (Water, Sediment, Oil, Gravimetric, ETC-Tracer, A-Abs)	
Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify):		12/11/25		11:03		Solid	
Empty Kit Relinquished by:		Relinquished by:		Date/Time: 12-12		Time: 16:30		Method of Shipment: Company	
Relinquished by:		Relinquished by:		Date/Time: 12-12		Time: 21:00		Date/Time: Company	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: TR 8 (-0,1)		Date/Time: 12-12		Time: 21:00		Date/Time: Company	
Cooler Temperature(s) °C and Other Remarks: 4, 3, 4, 2									
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & accreditation 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/testmatrix 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									
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									
Special Instructions/QC Requirements:									

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Ver: 10/10/2024

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9225-1

SDG Number: 03C1558774

**Login Number: 9225****List Source: Eurofins Carlsbad****List Number: 1****Creator: Bruns, Shannon****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: 890-9225-1

SDG Number: 03C1558774

**Login Number: 9225****List Source: Eurofins Midland****List Number: 2****List Creation: 12/15/25 09:20 AM****Creator: Laing, Edmundo**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



## Appendix E

### Spill Volume Calculation

<b>Location:</b>	<b>Ross Ranch 33-25-30</b>	
<b>Spill Date:</b>	<b>10/30/2025</b>	
<b>Incident #:</b>	<b>nAPP2530730945</b>	
<b>Area 1</b>		
Approximate Area =	7364	sq. ft.
Average Saturation (or depth) of spill =	0.19	inches
Average Porosity Factor =	1.00	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =		bbls
Total Produced Water =	20.00	bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =		bbls
Total Produced Water =	20.0	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =		bbls
Total Produced Water =	20	bbls

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 522399

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 522399
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2530730945
Incident Name	NAPP2530730945 PLU ROSS RANCH 33-25-30 @ D-33-25S-30E
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	PLU Ross Ranch 33-25-30
Date Release Discovered	10/30/2025
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	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 20 BBL   Recovered: 20 BBL   Lost: 0 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>20 bbls of produced water was released in impermeable containment, due to a leak on a produced water line. 20 bbls of produced water was recovered.</i>

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 522399

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 522399
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

*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.*

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 11/03/2025
--	---

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QUESTIONS, Page 3

Action 522399

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 522399
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	<i>Not answered.</i>
What method was used to determine the depth to ground water	<i>Not answered.</i>
Did this release impact groundwater or surface water	<i>Not answered.</i>
<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	<i>Not answered.</i>
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	<i>Not answered.</i>
An occupied permanent residence, school, hospital, institution, or church	<i>Not answered.</i>
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	<i>Not answered.</i>
Any other fresh water well or spring	<i>Not answered.</i>
Incorporated municipal boundaries or a defined municipal fresh water well field	<i>Not answered.</i>
A wetland	<i>Not answered.</i>
A subsurface mine	<i>Not answered.</i>
An (non-karst) unstable area	<i>Not answered.</i>
Categorize the risk of this well / site being in a karst geology	<i>Not answered.</i>
A 100-year floodplain	<i>Not answered.</i>
Did the release impact areas not on an exploration, development, production, or storage site	<i>Not answered.</i>

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	<b>No</b>
<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 522399

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 522399
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Initial C141 is approved. Remediation closure, work plan or site characterization is due to OCD within 90-days from the discovery of the release, and no later than 02/03/2026	11/4/2025

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QUESTIONS

Action 543783

**QUESTIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  543783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2530730945
Incident Name	NAPP2530730945 PLU ROSS RANCH 33-25-30 @ D-33-25S-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	PLU ROSS RANCH 33-25-30
Date Release Discovered	10/30/2025
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	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 20 BBL   Recovered: 20 BBL   Lost: 0 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>20 bbls of produced water was released in impermeable containment, due to a leak on a produced water line. 20 bbls of produced water was recovered.</i>

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QUESTIONS, Page 2

Action 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 543783
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 01/16/2026
--	---

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QUESTIONS, Page 3

**State of New Mexico**  
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Action 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 543783
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1/2 and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (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 1/2 and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	95.3
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/30/2025
On what date will (or did) the final sampling or liner inspection occur	12/11/2025
On what date will (or was) the remediation complete(d)	12/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	7459
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	7459
What is the estimated volume (in cubic yards) that will be remediated	0

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

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

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QUESTIONS, Page 4

Action 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 543783
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

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

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

*(Select all answers below that apply.)*

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	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)	Yes
Other Non-listed Remedial Process. Please specify	No impacted soil identified

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 01/16/2026
--	---

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

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QUESTIONS, Page 5

Action 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  543783
	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 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  543783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	532207
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/11/2025
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	13130

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	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	7459
What was the total volume (cubic yards) remediated	0
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	7459
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Delineation of potential impacts at this Site determined no soil that exceeded Site Closure Criteria or the reclamation standards were located below the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2530730945.

*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: 01/16/2026
--	---

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QUESTIONS, Page 7

Action 543783

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 543783
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	<input type="checkbox"/> No

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CONDITIONS

Action 543783

**CONDITIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  543783
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Liner Inspection and closure report is approved. Please note, the final sampling notification required is two business days prior to conducting final sampling, not 48 hours prior to conducting final sampling per 19.15.29.12 D. (1)(a) NMAC.	1/27/2026