



May 12, 2026

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU Ross Ranch 33-25-30 USA Battery
Incident Number nAPP2527929108
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, delineation, and soil sampling activities completed at the PLU Ross Ranch 33-25-30 USA Battery (Site) following a release of produced water within a 5,333 square foot, steel walled, lined containment. The containment houses vertical heater treaters, and surface piping. Based on the liner integrity inspection activities and laboratory analytical results, XTO is submitting this *Closure Request*, describing the inspection results and soil sample laboratory analytical results, and requesting closure for Incident Number nAPP2527929108.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D of Section 33, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.093297°, -103.893069°), and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On October 3, 2025, corrosion of a 3-inch check valve on a main water line resulted in the release of approximately 15 barrels (bbls) of produced water into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids, and all 15 bbls were recovered. The lined containment was power washed to remove any residual fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) on October 6, 2025, and submitted an Initial C-141 Application (C-141) on October 30, 2025. The release was assigned Incident Number nAPP2527929108.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a New Mexico Office of the State Engineer (OSE) permitted temporary well (C-03782), located approximately 0.1 miles north of the Site. The well had a depth to groundwater of 277

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feet bgs and a total depth of 805 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The well record and log for C-03782 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittently flooded riverine located approximately 3,120 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by potentially unstable geology (low potential karst designation area).

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

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

LINER INTEGRITY INSPECTION ACTIVITIES

The lined containment was cleaned of all debris and power washed, and a liner integrity inspection was conducted by Ensolum personnel on October 7, 2025. The lined containment was inspected, and it was determined to contain two small holes in close proximity, in the floor of the central portion of the north end of the lined containment. 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 October 23, 2025, Ensolum personnel were at the Site to complete delineation activities. Four delineation soil samples (SS01 through SS04) were collected around the lined containment at a depth of 0.5 feet bgs (surface) to assess the lateral extent of the release. One borehole (BH01) was advanced via hand auger to a terminal depth of 1-foot bgs in a central location of the two liner holes. Discrete soil samples were collected from the borehole at depths ranging from 0.5 feet bgs to 1-foot bgs. All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations of the soil samples from the borehole were logged on a lithologic soil sampling log, which is included in 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 Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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.

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Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COCs were in compliance with the Site Closure Criteria, confirming the release did not breach the steel walls of the lined containment. Delineation soil samples from borehole BH01 at 0.5 feet bgs and 1-foot bgs indicated all COCs were in compliance with the Closure Criteria. No impacted soil was identified underneath the holes in the lined containment. Laboratory analytical results are summarized in Table 1, and the laboratory analytical reports are included in Appendix D.

CONFIRMATION SOIL SAMPLING ACTIVITIES

On January 15, 2026, a *Closure Request* was submitted to the NMOCD. On February 18, 2026, the NMOCD denied the *Closure Request* for Incident Number nAPP2527929108 for the following reasons:

OCD received an email requesting a variance for the use of notifications submitted for Incident Number nAPP2527230287 for Incident Number nAPP2527929108, including the notification of liner inspection for October 7, 2025, and the sampling notification for October 23, 2025. On 12/18/2025, the OCD denied the variance request and required XTO a five-foot by five-foot (5' x 5') square to be cut in the liner at the location of each breach and each identified weakened area, as well as any additional areas discovered during the investigation. A five-point composite soil sample must be collected from each exposed area and analyzed for TPH, BTEX, and chlorides using the analytical methods specified in Table I of 19.15.29 NMAC. All affected areas must be vertically and horizontally delineated pursuant to 19.15.29.11(A)(5)(b) NMAC and remediated in accordance with 19.15.29.12 NMAC. The required sampling was not performed. In email correspondence to XTO, XTO must submit the required information, including appropriate sampling notifications, accurate and complete report(s), and documentation demonstrating compliance with the above-referenced directives through the OCD Permitting website no later than March 17, 2026.

A 48-hour advance notice of the liner inspection and soil sampling activities was submitted to the NMOCD on February 18, 2026. On February 26, 2026, Ensolum personnel returned to the Site and the lined containment was inspected. The liner was observed to be operating as designed and no tears, damage, or debris were identified. Ensolum personnel observed the patch in the liner in the central portion of the north end of the lined containment, installed following the delineation activities completed in October 2025. As requested by the NMOCD, Ensolum personnel cut a 5 foot by 5-foot hole in the liner and conducted additional sampling of the soil in the exposed area of the lined containment. A 5-point composite soil sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil sample CS01 was collected at the surface. The soil sample was field screened for VOCs and chloride. The soil sample was collected, handled, and analyzed following the same procedures as above and submitted to Eurofins Laboratories (Eurofins) and analyzed for the same COCs as previously described above. The liner was subsequently patched and sealed.

On April 15, 2026, a second 48-hour advance notice of the liner inspection and soil sampling activities was submitted to the NMOCD. On April 23, 2026, Ensolum personnel returned to the Site and the lined containment was inspected. The liner was observed to be operating as designed and no tears, damage, or debris were identified. Ensolum personnel observed the patch in the liner in the central portion of the north end of the lined containment, installed following the delineation activities completed in October 2025 and February 2026. As requested by the NMOCD, Ensolum personnel cut a 5 foot by 5-foot hole in the liner and conducted additional sampling of the soil in the exposed area of the lined containment. A 5-point composite soil sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil sample CS02 was collected at the surface. The soil sample was field screened for VOCs and chloride. The soil sample was collected, handled, and analyzed following the same procedures as above and submitted

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to Eurofins Laboratories (Eurofins) and analyzed for the same COCs as previously described above. The liner was subsequently patched and sealed. Photographic documentation of the liner sampling activities is included in Appendix B.

Laboratory analytical results for all confirmation soil samples indicated all COCs were compliant with the Site Closure Criteria. Laboratory analytical results for the confirmation soil sample results are summarized in Table 1, and the laboratory analytical report is included in Appendix D.

CLOSURE REQUEST

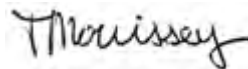
Delineation of potential impacts at this Site determined that no soil exceeding the Site Closure Criteria was located below the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. Additional assessment of the soil beneath the lined containment was conducted as part of additional remediation requirements. XTO believes these remedial actions are protective of human health, the environment, and groundwater and in compliance with the NMOCD requests to address the Site. As such, XTO respectfully requests closure for Incident Number nAPP2527929108.

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

Sincerely,
Ensolum, LLC



Jeremy Reich
Project Geologist



Tacoma Morrissey, PG (licensed in Tx)
Associate Principal

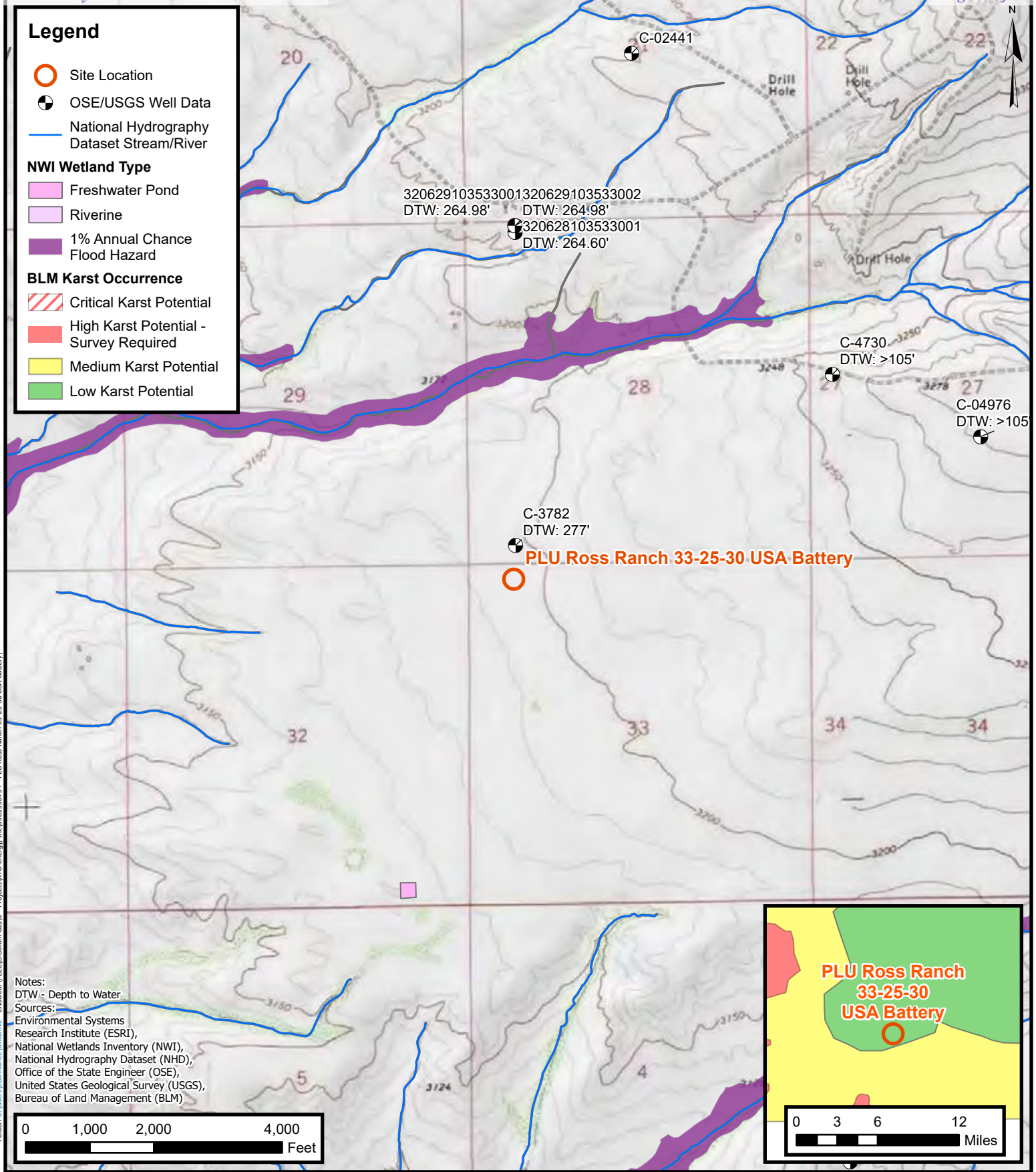
Cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Confirmation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Well Record and Log
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E Spill Volume Calculation and NMOCD Correspondence



FIGURES



Folder: C:\Users\Leah\OneDrive - ENSOLUM, LLC\ENSOLUM GIS\0 - Projects\XTO Energy, Inc\03C1558754 - PLU Ross Ranch 33-25-30 USA Battery



Site Receptor Map
 XTO Energy, Inc
 PLU Ross Ranch 33-25-30 USA Battery
 Incident Number: nAPP2527929108
 Unit D, Section 33, T 25S, R 30E
 Eddy County, New Mexico

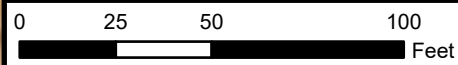
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Line
- Lined Containment



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

XTO Energy, Inc
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 Incident Number: nAPP2527929108
 Unit D, Section 33, T 25S, R 30E
 Eddy County, New Mexico

FIGURE
2

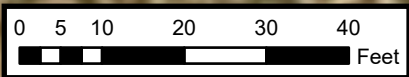
Legend

- Confirmation Soil Sample in Compliance with Closure Criteria
- Electric Utility Line
- - - 5x5 Cut Section
- Liner



CS02@Surface
 CS01@Surface

Notes:
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Location

XTO Energy, Inc
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 Incident Number: nAPP2527230287 and nAPP2527929108
 Unit D, Section 33, T 25S, R 30E
 Eddy County, New Mexico

FIGURE

3





TABLES



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

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS04	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
BH01	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH01A	10/23/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
Confirmation Soil Samples										
CS01	02/26/2026	Surface	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	305
CS02	04/23/2026	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	535

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

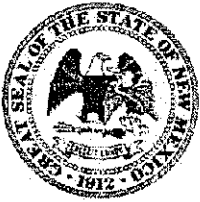
TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

Well Record and Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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</i>) <i>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 Fort Worth	STATE TX	ZIP 76102
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 05	SECONDS 40.1	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 103	53	32.2	* 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.						


2. DRILLING & CASING INFORMATION	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 bgl)		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	STATE ENGINEER OFFICE 1716 2015 FEB 19 PM 2:35
	270	805	14.75	304 Stainless Steel	Welded	8.625	0.25	
	0	15	19	AS1M A53B	---	16	0.25	

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	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	I remie Pipe

FOR OSE INTERNAL USE <i>Renumbered from C-3782-POD1</i>		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER <i>C-3832</i>	POD NUMBER <i>POD 2</i>	TRN NUMBER <i>555125</i>	PAGE 1 OF 2
LOCATION <i>25.30.28.3343</i>			

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				TOTAL ESTIMATED WELL YIELD (gpm): TBD	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input checked="" type="radio"/> OTHER - SPECIFY: TBD by pump test					

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 SIGNEE NAME	Joel H. Stewart DATE: 2-13-15

STATE ENGINEER OFFICE
 2015 FEB 19 PM 2:35
 ROSWELL, NEW MEXICO

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

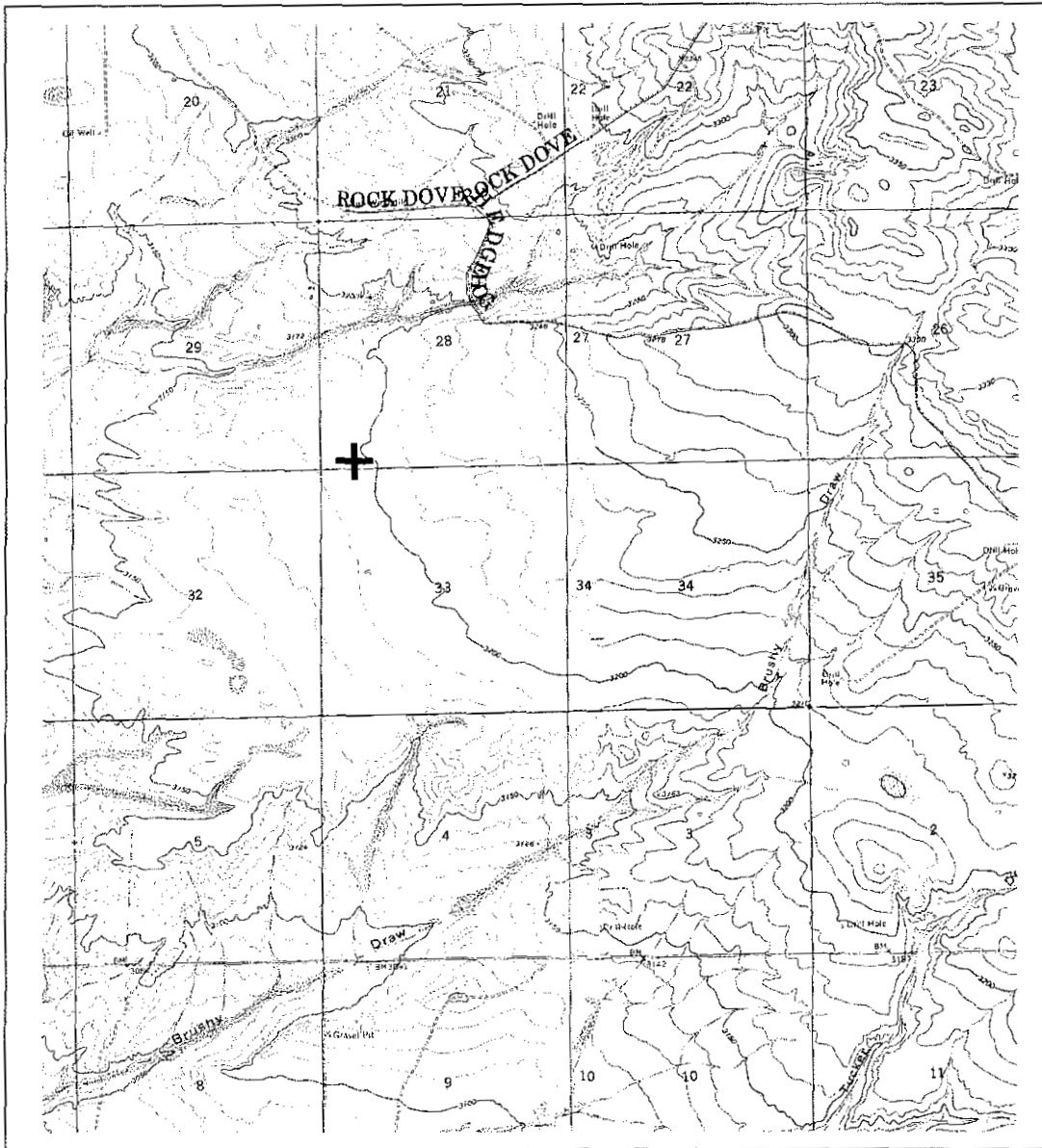
NAD 1983(92) (Meters)	N: 3,551,444	E: 604,526
NAD 1983(92) (Survey Feet)	N: 11,651,697	E: 1,983,348
NAD 1927 (Meters)	N: 3,551,243	E: 604,573
NAD 1927 (Survey Feet)	N: 11,651,036	E: 1,983,505

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 USA Battery

nAPP2527929108



<p><u>Photograph</u> 1</p>	<p><u>Date</u> 10/3/2025</p>	
<p><u>Description</u> Initial release observed for Incident Number nAPP2527929108</p>		
<p><u>View</u> POR located at approximately 32.09321°, -103.89301°</p>		
<p><u>Photograph</u> 2</p>	<p><u>Date</u> 10/3/2025</p>	
<p><u>Description</u> Initial release observed for Incident Number nAPP2527929108</p>		
<p><u>View</u> POR located at approximately 32.09321°, -103.89301°</p>		

Photographic Log

XTO Energy, Inc

PLU Ross Ranch 33-25-30 USA Battery

nAPP2527929108


<p><u>Photograph</u> 3</p>	<p><u>Date</u> 10/7/2025</p>	
<p><u>Description</u> Well sign during liner inspection activities</p>		
<p><u>View</u> South</p>		<p>10/7/25 12:28 32.09307352 -103.89263412 185° S</p>
<p><u>Photograph</u> 4</p>	<p><u>Date</u> 10/7/2025</p>	
<p><u>Description</u> Near POR observed during liner inspection activities</p>		
<p><u>View</u> North</p>		<p>10/7/25 12:08 32.09316524 -103.8929678 347° N</p>

Photographic Log

XTO Energy, Inc





PLU Ross Ranch 33-25-30 USA Battery

nAPP2527929108

<p><u>Photograph</u> 5</p>	<p><u>Date</u> 10/7/2025</p>	 <p>10/7/25 12:07 32.09315216 -103.89308018 65° NE</p>
<p><u>Description</u> Liner inspection activities</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 6</p>	<p><u>Date</u> 10/7/2025</p>	 <p>10/7/25 12:07 32.09326582 -103.89307551 147° SE</p>
<p><u>Description</u> Liner inspection activities</p>		
<p><u>View</u> Southeast</p>		

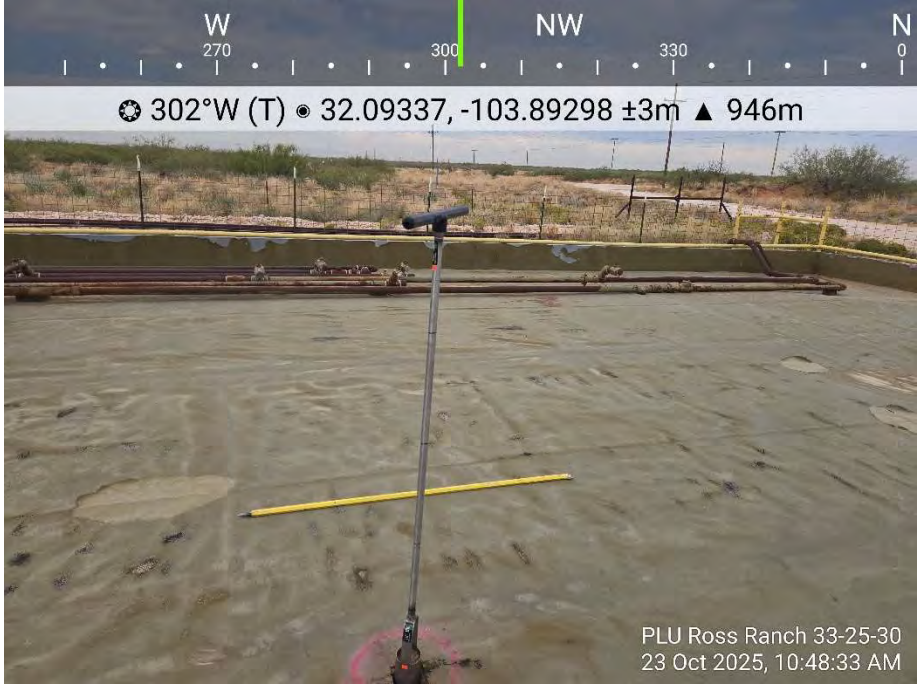

Photographic Log

XTO Energy, Inc
 PLU Ross Ranch 33-25-30 USA Battery
 nAPP2527929108

<p><u>Photograph</u> 7</p>	<p><u>Date</u> 10/7/2025</p>	
<p><u>Description</u> Liner inspection activities</p>		
<p><u>View</u> South</p>		<p>10/7/25 12:07 32.09328611 -103.89307127 168° S</p>
<p><u>Photograph</u> 8</p>	<p><u>Date</u> 10/7/2025</p>	
<p><u>Description</u> Observed holes in liner floor during inspection activities</p>		
<p><u>View</u> West</p>		<p>10/7/25 12:06 32.09334379 -103.89298971 292° W</p>

Photographic Log

XTO Energy, Inc
PLU Ross Ranch 33-25-30 USA Battery
nAPP2527929108

<p><u>Photograph</u> 9</p>	<p><u>Date</u> 10/23/2025</p>	
<p><u>Description</u> Delineation activities near BH01</p>		
<p><u>View</u> Northwest</p>		
<p><u>Photograph</u> 10</p>	<p><u>Date</u> 10/23/2025</p>	
<p><u>Description</u> Patching activities</p>		
<p><u>View</u> Northwest</p>		

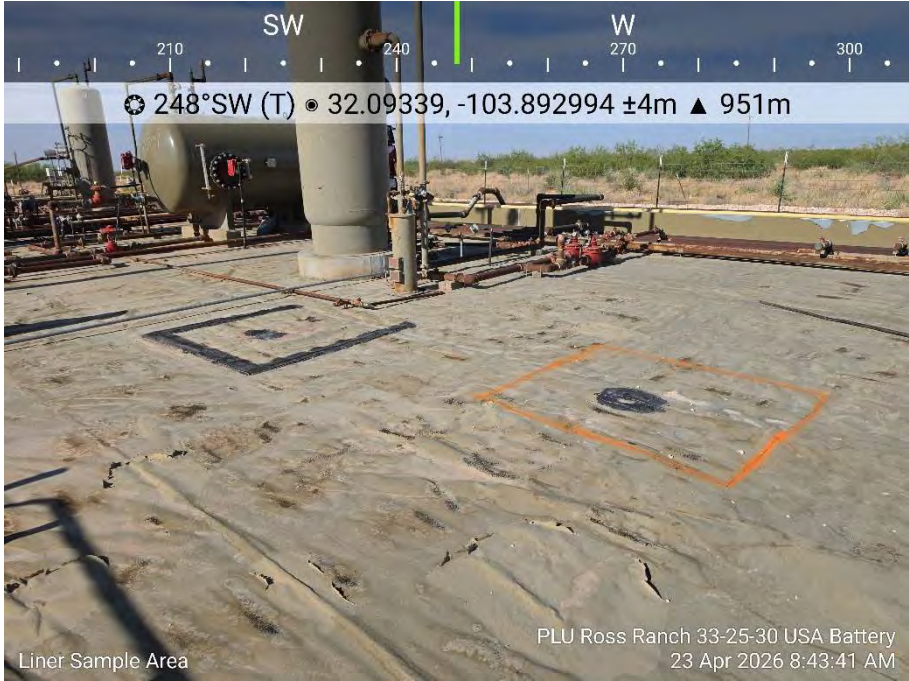

Photographic Log

XTO Energy, Inc
PLU Ross Ranch 33-25-30 USA Battery
nAPP2527929108

<p><u>Photograph</u> 11</p>	<p><u>Date</u> 2/26/2026</p>	
<p><u>Description</u> Liner cutting activities near CS01</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 12</p>	<p><u>Date</u> 2/26/2026</p>	
<p><u>Description</u> Patching activities</p>		
<p><u>View</u> Northwest</p>		

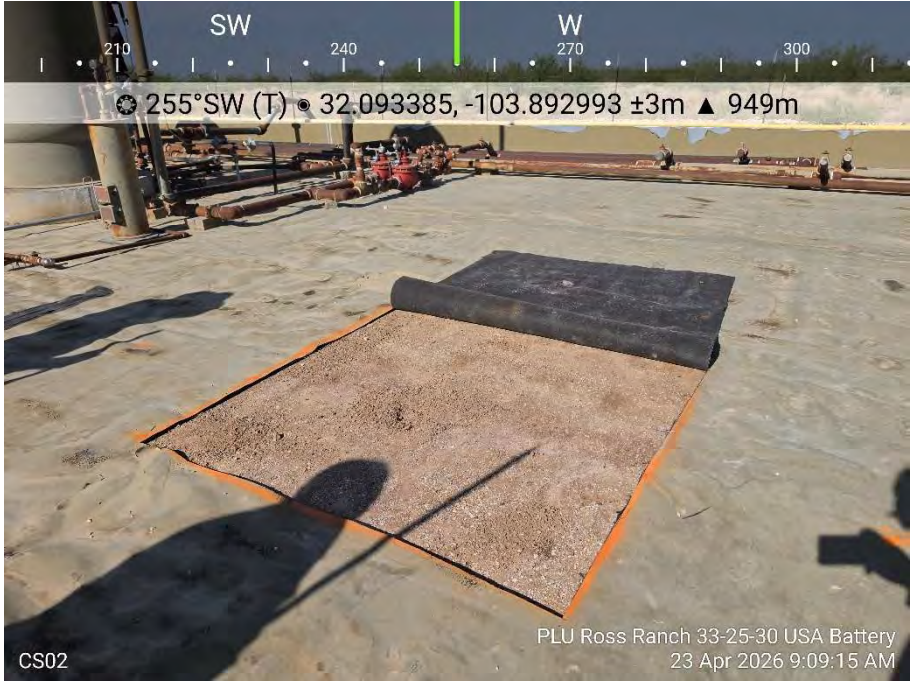

Photographic Log

XTO Energy, Inc
PLU Ross Ranch 33-25-30 USA Battery
nAPP2527929108

<p><u>Photograph</u> 13</p>	<p><u>Date</u> 4/23/2026</p>	
<p><u>Description</u> Liner cutting and patch activities near CS01, proposed cut section near CS02</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 14</p>	<p><u>Date</u> 4/23/2026</p>	
<p><u>Description</u> Liner patch over CS01</p>		
<p><u>View</u> West</p>		

Photographic Log


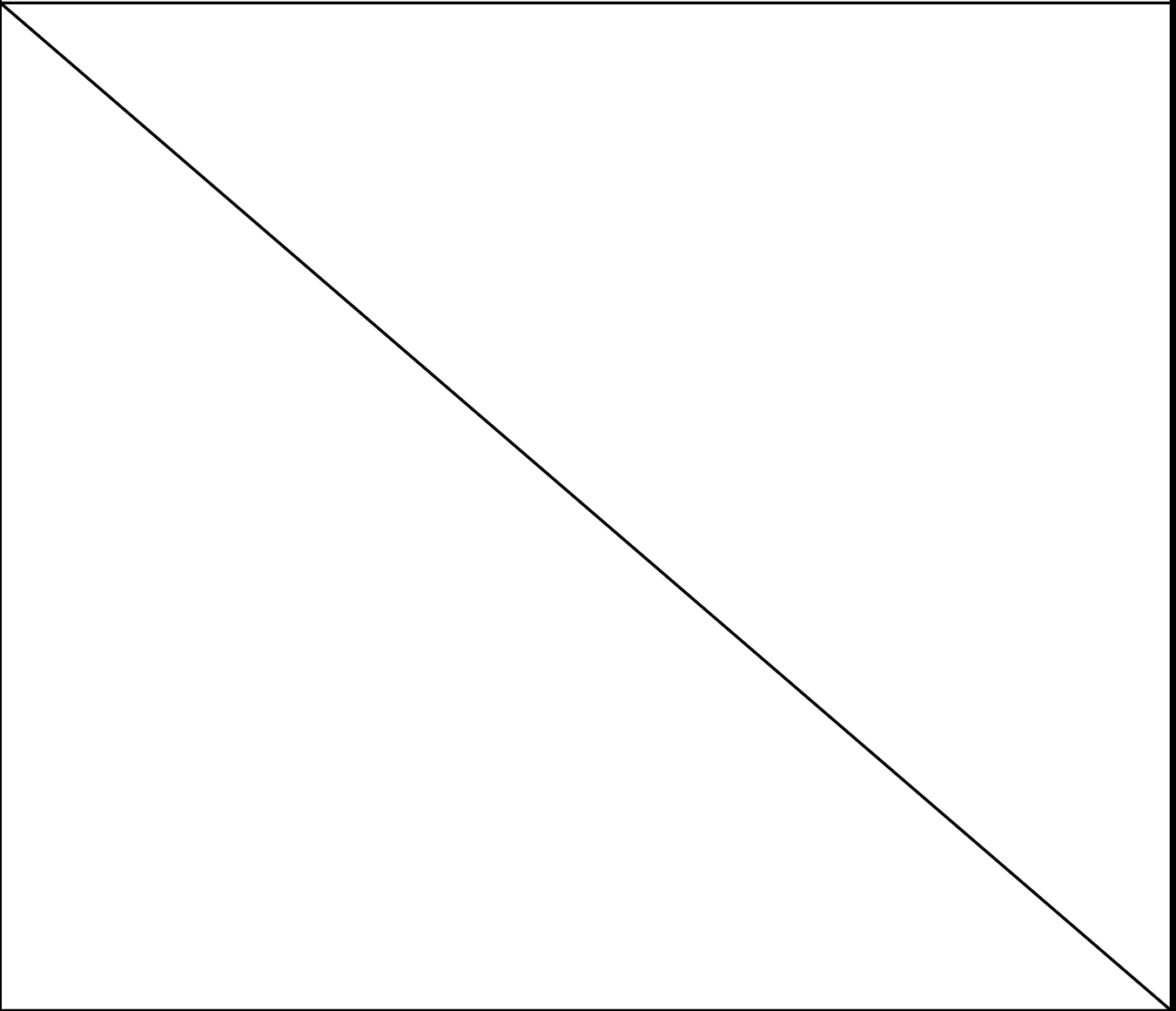
XTO Energy, Inc
PLU Ross Ranch 33-25-30 USA Battery
nAPP2527929108

<p><u>Photograph</u> 15</p>	<p><u>Date</u> 4/23/2026</p>	
<p><u>Description</u> Liner cutting and sampling activities near CS02</p>		
<p><u>View</u> West</p>		<p>CS02</p> <p>PLU Ross Ranch 33-25-30 USA Battery 23 Apr 2026 9:09:15 AM</p>
<p><u>Photograph</u> 16</p>	<p><u>Date</u> 4/23/2026</p>	
<p><u>Description</u> Patching activities near CS02 and CS01</p>		
<p><u>View</u> Southwest</p>		<p>CS02 Area.(Patched)</p> <p>PLU Ross Ranch 33-25-30 USA Battery 23 Apr 2026 12:24:26 PM</p>



APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: BH01		Date: 10/23/2025	
					Site Name: PLU Ross Ranch 33-25-30 USA Battery			
					Incident Number: nAPP2527929108			
					Job Number: 03C1558754			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: JD		Method: Hand Auger	
Coordinates: 32.09 75, -103.89 0 21					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	369.6	0.0	N	BH01	0.5	0.5	CCHE	(0-0.5')- Caliche, tan, well-graded, no odor
D	280	0.0	N	BH01A	1	1	CCHE	(0.5'-1')- Caliche, tan, well-graded, no odor
Total Depth @ 1 foot below ground surface (bgs)								
								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

October 28, 2025

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

RE: PLU ROSS RANCH 33-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/24/25 9:43.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS02 .5' (H256713-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.3 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS03 .5' (H256713-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 75.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS04 .5' (H256713-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.6 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: SS01 .5' (H256713-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 72.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 67.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC
 Project Manager: Jeremy Reich
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 432-296-0627 Fax #: Project Owner: XTO Energy
 Project #: 03C1558754 Project Name: PLU Ross Ranch 33-25-30
 Project Location: 32.09279, -103.89216
 Sampler Name: Jesse Dorman

BILL TO
 P.O. #: Company: XTO Energy Inc
 Attn: Colton Brown Address: 3104 E Greene ST
 City: Midland State: TX Zip: 88220
 Phone #: Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
HAS6713	Sheet 30	5'		6							10/25/25	9:25			
	1	5502										9:56			
	2	5503										10:05			
	3	5504										9:12			
	4	5501													
		SD													

PLEASE NOTE: Lastly and importantly, Cardinal's quality and control procedures (needed for any claim arising whether based on contract or tort, shall be subject to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. It is the client's responsibility to ensure that all necessary permits, including without limitation, business registrations, state of issue, or laws or rules of conduct required by client, its subsidiaries, affiliates or successors are in place and in compliance with applicable laws and regulations. Cardinal is not responsible for any such issues. It is the client's responsibility to ensure that all necessary permits, including without limitation, business registrations, state of issue, or laws or rules of conduct required by client, its subsidiaries, affiliates or successors are in place and in compliance with applicable laws and regulations.

Relinquished By: [Signature]
 Date: 10/24/25
 Time: 0943
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: C
 Delivered Temp: °C 4.8
 Sample Condition: Cool / Ambient / Hot
 Checked By: [Signature]

Turnaround Time: Standard / Rush
 Bacteria (only) / Sample Condition
 Corrected Temp: °C
 Incident Number: NAPP2510437615
 Cost Center: 1081111001

Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsrmy.com



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

October 28, 2025

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

RE: PLU ROSS RANCH 33-25-30

Enclosed are the results of analyses for samples received by the laboratory on 10/24/25 9:43.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: BH01 .5' (H256714-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/24/2025	Sampling Date:	10/23/2025
Reported:	10/28/2025	Sampling Type:	Soil
Project Name:	PLU ROSS RANCH 33-25-30	Sampling Condition:	Cool & Intact
Project Number:	03C1558754	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.09279-103.89216		

Sample ID: BH01A 1' (H256714-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.70	84.8	2.00	2.51	
Toluene*	<0.050	0.050	10/24/2025	ND	1.81	90.7	2.00	0.0584	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	1.84	92.2	2.00	1.09	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	5.79	96.4	6.00	0.779	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/27/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2025	ND	204	102	200	2.33	
DRO >C10-C28*	<10.0	10.0	10/27/2025	ND	211	105	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	10/27/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.2 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST											
Project Manager: Jeremy Reich		P.O. #:													
Address: 601 N Marienfeld Street, Suite 400		Company: XTO Energy Inc													
City: Midland State: TX Zip: 79701		Attn: Colton Brown													
Phone #: 432-296-0627 Fax #:		Address: 3104 E Greene ST													
Project #: 03C1558754 Project Owner: XTO Energy		City: Midland													
Project Name: PLU Ross Ranch 33-25-30		State: TX Zip: 88220													
Project Location: 32.09279, -103.89216		Phone #:													
Sampler Name: Jesse Dorman		Fax #:													

Lab I.D.	Sample I.D.	Depth (feet)	GRAB OR (C)JUMP	# CONTAINERS	MATRIX					PRESERV		SAMPLING		TPH 8015	BTEX 8021	Chloride 4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				DATE
H256714	B401	5'	↓	1							✓		10/23/25	1050			
2	B601A	1'	↓	1							✓		1955				

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PS-0402401K

Relinquished By: <i>[Signature]</i>	Date: 10.24.25	Received By: <i>[Signature]</i>	Time: 0943	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Time:	All Results are emailed. Please provide Email address: JBelli@ensolum.com, TMorrissey@ensolum.com, JReich@ensolum.com THillard@ensolum.com, KThomason@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 4.8 Corrected Temp. °C: 5.1	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>	REMARKS: Incident Number: NAPP2510437615 GFCM 48805000 Cost Center: 1081111001
			Turnaround Time: <i>Standard</i>	Thermometer ID #12 Corrected Temp. °C: -0.0

† Cardinal cannot accept verbal changes. Please email changes to cefey.keene@cardinallabnm.com



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701
 Generated 3/3/2026 3:18:05 PM

JOB DESCRIPTION

PLU Ross Ranch 33-25-30 USA Bat
 03C1558754

JOB NUMBER

890-9564-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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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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3/3/2026 3:18:05 PM

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

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Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Laboratory Job ID: 890-9564-1
SDG: 03C1558754

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1

Job ID: 890-9564-1

Eurofins Carlsbad

Job Narrative 890-9564-1

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 sample was received on 2/27/2026 2:16 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS 01 (890-9564-1).

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

Client Sample ID: CS 01

Lab Sample ID: 890-9564-1

Date Collected: 02/26/26 09:50

Matrix: Solid

Date Received: 02/27/26 14:16

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		03/03/26 10:11	03/03/26 13:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 13:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 13:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/03/26 10:11	03/03/26 13:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 13:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/03/26 10:11	03/03/26 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/03/26 10:11	03/03/26 13:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/03/26 10:11	03/03/26 13:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/03/26 13:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/03/26 12:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/02/26 15:42	03/03/26 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/02/26 15:42	03/03/26 12:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/02/26 15:42	03/03/26 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	03/02/26 15:42	03/03/26 12:49	1
o-Terphenyl	107		70 - 130	03/02/26 15:42	03/03/26 12:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	305		9.94	mg/Kg			03/03/26 12:36	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-68966-A-1-G MS	Matrix Spike	117	93
880-68966-A-1-H MSD	Matrix Spike Duplicate	114	98
890-9564-1	CS 01	111	95
LCS 880-133648/1-A	Lab Control Sample	114	98
LCSD 880-133648/2-A	Lab Control Sample Dup	116	94
MB 880-133648/5-A	Method Blank	116	92

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	OTPH1
		(70-130)	(70-130)
890-9564-1	CS 01	111	107
890-9571-A-36-B MS	Matrix Spike	80	83
890-9571-A-36-C MSD	Matrix Spike Duplicate	81	82
LCS 880-133550/2-A	Lab Control Sample	124	98
LCSD 880-133550/3-A	Lab Control Sample Dup	93	96
MB 880-133550/1-A	Method Blank	105	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
 Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-133648/5-A
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 11:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 11:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/03/26 10:11	03/03/26 11:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/26 10:11	03/03/26 11:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/03/26 10:11	03/03/26 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/03/26 10:11	03/03/26 11:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/03/26 10:11	03/03/26 11:27	1

Lab Sample ID: LCS 880-133648/1-A
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09429		mg/Kg		94	70 - 130
Toluene	0.100	0.08520		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08358		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1887		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09905		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-133648/2-A
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09359		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.09716		mg/Kg		97	70 - 130	13	35
Ethylbenzene	0.100	0.09650		mg/Kg		97	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130	17	35
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-68966-A-1-G MS
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08993		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.08738		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

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

Lab Sample ID: 880-68966-A-1-G MS
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U	0.100	0.08946		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2050		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-68966-A-1-H MSD
 Matrix: Solid
 Analysis Batch: 133587

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 133648

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.08682		mg/Kg		87	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08911		mg/Kg		89	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08961		mg/Kg		90	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2082		mg/Kg		104	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.1063		mg/Kg		106	70 - 130	0	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-133550/1-A
 Matrix: Solid
 Analysis Batch: 133599

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 133550

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		03/02/26 15:42	03/03/26 08:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/02/26 15:42	03/03/26 08:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/02/26 15:42	03/03/26 08:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	105		70 - 130	03/02/26 15:42	03/03/26 08:08	1
o-Terphenyl	98		70 - 130	03/02/26 15:42	03/03/26 08:08	1

Lab Sample ID: LCS 880-133550/2-A
 Matrix: Solid
 Analysis Batch: 133599

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 133550

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1126		mg/Kg		113	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

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

Lab Sample ID: LCS 880-133550/2-A
Matrix: Solid
Analysis Batch: 133599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 133550

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	124		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-133550/3-A
Matrix: Solid
Analysis Batch: 133599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 133550

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1100		mg/Kg		110	70 - 130	2		20
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130	3		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-9571-A-36-B MS
Matrix: Solid
Analysis Batch: 133599

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 133550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	976.5		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	998.6		mg/Kg		98	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	80		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-9571-A-36-C MSD
Matrix: Solid
Analysis Batch: 133599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 133550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	982.7		mg/Kg		98	70 - 130	1		20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	944.0		mg/Kg		92	70 - 130	6		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	81		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-133577/1-A
 Matrix: Solid
 Analysis Batch: 133603

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			03/03/26 09:29	1

Lab Sample ID: LCS 880-133577/2-A
 Matrix: Solid
 Analysis Batch: 133603

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-133577/3-A
 Matrix: Solid
 Analysis Batch: 133603

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.5		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-68978-A-1-C MS
 Matrix: Solid
 Analysis Batch: 133603

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	546		249	768.9		mg/Kg		90	90 - 110

Lab Sample ID: 880-68978-A-1-D MSD
 Matrix: Solid
 Analysis Batch: 133603

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	546		249	769.8		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

GC VOA

Analysis Batch: 133587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	8021B	133648
MB 880-133648/5-A	Method Blank	Total/NA	Solid	8021B	133648
LCS 880-133648/1-A	Lab Control Sample	Total/NA	Solid	8021B	133648
LCSD 880-133648/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	133648
880-68966-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	133648
880-68966-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	133648

Prep Batch: 133648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	5035	
MB 880-133648/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-133648/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-133648/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-68966-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-68966-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 133701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 133550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	8015NM Prep	
MB 880-133550/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-133550/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-133550/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9571-A-36-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9571-A-36-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 133599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	8015B NM	133550
MB 880-133550/1-A	Method Blank	Total/NA	Solid	8015B NM	133550
LCS 880-133550/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	133550
LCSD 880-133550/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	133550
890-9571-A-36-B MS	Matrix Spike	Total/NA	Solid	8015B NM	133550
890-9571-A-36-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	133550

Analysis Batch: 133698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 133577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Soluble	Solid	DI Leach	
MB 880-133577/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-133577/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-133577/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

HPLC/IC (Continued)

Leach Batch: 133577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-68978-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-68978-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 133603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9564-1	CS 01	Soluble	Solid	300.0	133577
MB 880-133577/1-A	Method Blank	Soluble	Solid	300.0	133577
LCS 880-133577/2-A	Lab Control Sample	Soluble	Solid	300.0	133577
LCSD 880-133577/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	133577
880-68978-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	133577
880-68978-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	133577

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Lab Chronicle

Client: Ensolum
 Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
 SDG: 03C1558754

Client Sample ID: CS 01

Lab Sample ID: 890-9564-1

Date Collected: 02/26/26 09:50

Matrix: Solid

Date Received: 02/27/26 14:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	133648	03/03/26 10:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133587	03/03/26 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			133701	03/03/26 13:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133698	03/03/26 12:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	133550	03/02/26 15:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133599	03/03/26 12:49	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	133577	03/03/26 12:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	133603	03/03/26 12:36	SMC	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 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

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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Method Summary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Ensolum
Project/Site: PLU Ross Ranch 33-25-30 USA Bat

Job ID: 890-9564-1
SDG: 03C1558754

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9564-1	CS 01	Solid	02/26/26 09:50	02/27/26 14:16	SURFACE

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9564-1

SDG Number: 03C1558754

Login Number: 9564

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9564-1

SDG Number: 03C1558754

Login Number: 9564

List Source: Eurofins Midland

List Number: 2

List Creation: 03/02/26 10:11 AM

Creator: Dyal, Erica

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	

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701
 Generated 5/4/2026 4:33:18 PM

JOB DESCRIPTION

PLU ROSS RANCH 33 - 25 - 30
 03C1558754

JOB NUMBER

890-9830-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/4/2026 4:33:18 PM

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

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

Laboratory Job ID: 890-9830-1
SDG: 03C1558754

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Definitions/Glossary

Client: Ensolum

Job ID: 890-9830-1

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

SDG: 03C1558754

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

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

Job ID: 890-9830-1

Job ID: 890-9830-1

Eurofins Carlsbad

Job Narrative 890-9830-1

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 sample was received on 4/23/2026 1:43 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS 02 (890-9830-1).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-139608 and analytical batch 880-139579 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Carlsbad



Client Sample Results

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

Job ID: 890-9830-1
 SDG: 03C1558754

Client Sample ID: CS 02

Lab Sample ID: 890-9830-1

Date Collected: 04/23/26 09:48

Matrix: Solid

Date Received: 04/23/26 13:43

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		05/01/26 09:55	05/01/26 18:33	1
Toluene	<0.00200	U *	0.00200	mg/Kg		05/01/26 09:55	05/01/26 18:33	1
Ethylbenzene	<0.00200	U *	0.00200	mg/Kg		05/01/26 09:55	05/01/26 18:33	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400	mg/Kg		05/01/26 09:55	05/01/26 18:33	1
o-Xylene	<0.00200	U *	0.00200	mg/Kg		05/01/26 09:55	05/01/26 18:33	1
Xylenes, Total	<0.00400	U *	0.00400	mg/Kg		05/01/26 09:55	05/01/26 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/01/26 09:55	05/01/26 18:33	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/01/26 09:55	05/01/26 18:33	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			05/01/26 18:33	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			05/01/26 03:15	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		04/24/26 08:34	05/01/26 03:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/24/26 08:34	05/01/26 03:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/24/26 08:34	05/01/26 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/24/26 08:34	05/01/26 03:15	1
o-Terphenyl	99		70 - 130	04/24/26 08:34	05/01/26 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		9.92	mg/Kg			04/28/26 17:47	1

Surrogate Summary

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

Job ID: 890-9830-1
SDG: 03C1558754

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-71700-A-1-E MS	Matrix Spike	101	93
880-71700-A-1-F MSD	Matrix Spike Duplicate	96	100
890-9830-1	CS 02	105	91
LCS 880-139608/1-A	Lab Control Sample	88	110
LCSD 880-139608/2-A	Lab Control Sample Dup	101	103
MB 880-139608/5-A	Method Blank	105	90

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	OTPH1
		(70-130)	(70-130)
890-9826-A-12-B MS	Matrix Spike	102	96
890-9826-A-12-C MSD	Matrix Spike Duplicate	103	98
890-9830-1	CS 02	92	99
LCS 880-138834/2-A	Lab Control Sample	108	101
LCSD 880-138834/3-A	Lab Control Sample Dup	104	98
MB 880-138834/1-A	Method Blank	92	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 890-9830-1
 SDG: 03C1558754

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-139608/5-A
 Matrix: Solid
 Analysis Batch: 139579

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 139608

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/26 09:55	05/01/26 10:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/26 09:55	05/01/26 10:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/26 09:55	05/01/26 10:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/01/26 09:55	05/01/26 10:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/26 09:55	05/01/26 10:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/01/26 09:55	05/01/26 10:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/01/26 09:55	05/01/26 10:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/01/26 09:55	05/01/26 10:24	1

Lab Sample ID: LCS 880-139608/1-A
 Matrix: Solid
 Analysis Batch: 139579

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 139608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07907		mg/Kg		79	70 - 130
Toluene	0.100	0.06902	*-	mg/Kg		69	70 - 130
Ethylbenzene	0.100	0.06660	*-	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	0.200	0.1233	*-	mg/Kg		62	70 - 130
o-Xylene	0.100	0.06349	*-	mg/Kg		63	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-139608/2-A
 Matrix: Solid
 Analysis Batch: 139579

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 139608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07388		mg/Kg		74	70 - 130	7	35
Toluene	0.100	0.07345		mg/Kg		73	70 - 130	6	35
Ethylbenzene	0.100	0.07516		mg/Kg		75	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1471		mg/Kg		74	70 - 130	18	35
o-Xylene	0.100	0.07647		mg/Kg		76	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-71700-A-1-E MS
 Matrix: Solid
 Analysis Batch: 139579

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 139608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07679		mg/Kg		77	70 - 130
Toluene	<0.00200	U *	0.100	0.08084		mg/Kg		81	70 - 130

Eurofins Carlsbad

QC Sample Results

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

Job ID: 890-9830-1
 SDG: 03C1558754

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

Lab Sample ID: 880-71700-A-1-E MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 139579

Prep Batch: 139608

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U *	0.100	0.08810		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U *	0.200	0.1807		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U *	0.100	0.09066		mg/Kg		91	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-71700-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 139579

Prep Batch: 139608

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.08547		mg/Kg		85	70 - 130	11	35
Toluene	<0.00200	U *	0.100	0.08567		mg/Kg		86	70 - 130	6	35
Ethylbenzene	<0.00200	U *	0.100	0.08924		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U *	0.200	0.1810		mg/Kg		90	70 - 130	0	35
o-Xylene	<0.00200	U *	0.100	0.09045		mg/Kg		90	70 - 130	0	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-138834/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 139438

Prep Batch: 138834

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		04/24/26 08:34	04/30/26 22:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/24/26 08:34	04/30/26 22:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/24/26 08:34	04/30/26 22:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	92		70 - 130	04/24/26 08:34	04/30/26 22:57	1
o-Terphenyl	93		70 - 130	04/24/26 08:34	04/30/26 22:57	1

Lab Sample ID: LCS 880-138834/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 139438

Prep Batch: 138834

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	863.1		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	919.1		mg/Kg		92	70 - 130

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QC Sample Results

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

Job ID: 890-9830-1
 SDG: 03C1558754

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

Lab Sample ID: LCS 880-138834/2-A
Matrix: Solid
Analysis Batch: 139438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138834

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-138834/3-A
Matrix: Solid
Analysis Batch: 139438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 138834

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	823.3		mg/Kg		82	70 - 130	5		20
Diesel Range Organics (Over C10-C28)	1000	894.1		mg/Kg		89	70 - 130	3		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-9826-A-12-B MS
Matrix: Solid
Analysis Batch: 139438

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 138834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	728.9		mg/Kg		73	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	761.9		mg/Kg		76	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	102		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-9826-A-12-C MSD
Matrix: Solid
Analysis Batch: 139438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 138834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	751.3		mg/Kg		75	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	792.5		mg/Kg		79	70 - 130	4	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

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

Job ID: 890-9830-1
 SDG: 03C1558754

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-138907/1-A
 Matrix: Solid
 Analysis Batch: 139234

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			04/28/26 15:36	1

Lab Sample ID: LCS 880-138907/2-A
 Matrix: Solid
 Analysis Batch: 139234

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.1		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-138907/3-A
 Matrix: Solid
 Analysis Batch: 139234

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	232.9		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-9826-A-20-C MS
 Matrix: Solid
 Analysis Batch: 139234

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	214		252	447.7		mg/Kg		93	90 - 110

Lab Sample ID: 890-9826-A-20-D MSD
 Matrix: Solid
 Analysis Batch: 139234

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	214		252	441.3		mg/Kg		90	90 - 110	1	20

QC Association Summary

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

Job ID: 890-9830-1
SDG: 03C1558754

GC VOA

Analysis Batch: 139579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	8021B	139608
MB 880-139608/5-A	Method Blank	Total/NA	Solid	8021B	139608
LCS 880-139608/1-A	Lab Control Sample	Total/NA	Solid	8021B	139608
LCSD 880-139608/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	139608
880-71700-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	139608
880-71700-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	139608

Prep Batch: 139608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	5035	
MB 880-139608/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-139608/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-139608/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-71700-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-71700-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 139858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 138834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	8015NM Prep	
MB 880-138834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-138834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-138834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9826-A-12-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9826-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 139438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	8015B NM	138834
MB 880-138834/1-A	Method Blank	Total/NA	Solid	8015B NM	138834
LCS 880-138834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	138834
LCSD 880-138834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	138834
890-9826-A-12-B MS	Matrix Spike	Total/NA	Solid	8015B NM	138834
890-9826-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	138834

Analysis Batch: 139597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 138907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Soluble	Solid	DI Leach	
MB 880-138907/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-138907/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-138907/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

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

Job ID: 890-9830-1
 SDG: 03C1558754

HPLC/IC (Continued)

Leach Batch: 138907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9826-A-20-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-9826-A-20-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 139234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9830-1	CS 02	Soluble	Solid	300.0	138907
MB 880-138907/1-A	Method Blank	Soluble	Solid	300.0	138907
LCS 880-138907/2-A	Lab Control Sample	Soluble	Solid	300.0	138907
LCSD 880-138907/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	138907
890-9826-A-20-C MS	Matrix Spike	Soluble	Solid	300.0	138907
890-9826-A-20-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	138907

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- 13
- 14

Lab Chronicle

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

Job ID: 890-9830-1
 SDG: 03C1558754

Client Sample ID: CS 02

Lab Sample ID: 890-9830-1

Date Collected: 04/23/26 09:48

Matrix: Solid

Date Received: 04/23/26 13:43

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	139608	05/01/26 09:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	139579	05/01/26 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			139858	05/01/26 18:33	SA	EET MID
Total/NA	Analysis	8015 NM		1			139597	05/01/26 03:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	138834	04/24/26 08:34	JN	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	139438	05/01/26 03:15	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	138907	04/24/26 13:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	139234	04/28/26 17:47	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: 890-9830-1
SDG: 03C1558754

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

- 1
- 2
- 3
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- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 890-9830-1
SDG: 03C1558754

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 890-9830-1
SDG: 03C1558754

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9830-1	CS 02	Solid	04/23/26 09:48	04/23/26 13:43	SURFACE

- 1
- 2
- 3
- 4
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- 7
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- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody

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



Environment Testing

Xenco

Work Order No: _____

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Work Order Comments

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Reporting: Level II Level III Level IIII PST/UST TRRP Level IV

Deliverables: EDD ADaPT Other: _____

Project Manager: Jeremy Reich
Company Name: ENSOLIM, LLC
Address: 3122 National Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: 432-296-0627
Bill to: (if different) Dale Woodall
Company Name: XTO
Address: 3109 E. Green St.,
City, State ZIP: Carlsbad, NM 88220
Email: jreich@ensolim.com / msamrisc@ensolim.com

Project Name: PLU Ross Ranch 33-25-30
Project Number: 0261558754
Project Location: 32.093378, -103.893030
Sampler's Name: Mario Sarkis
PO #:

SAMPLE RECEIPT

Samples Received Intact: Yes No Wet Ice: Yes No Immediate

Cooler Custody Seals: Yes No Correction Factor: 0.2

Sample Custody Seals: Yes No N/A Temperature Reading: 3.8

Total Containers: Corrected Temperature: 3.6

Turn Around
 Routine Rush
 Due Date: 4/30/26
 TAT starts the day received by the lab, if received by 4:30pm

ANALYSIS PARAMETERS

Pres. Code: Cool Cool Cool
 Parameters: BTX, TOH, Chlorides

Preservative Codes

None: NO
 DI Water: H₂O
 Cool: Cool
 MeOH: Me
 HCL: HC
 HNO₃: HN
 H₂SO₄: H₂
 H₃PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₃: NaSO₃
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

Sample Comments
 NAPP2527929108
 CC: 108111001
 GFCM: 48605000

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco 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 Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
		4/23/26	

Revised Date: 08/25/2020 Rev. 2022



Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9830-1

SDG Number: 03C1558754

Login Number: 9830

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	

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- 14

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9830-1

SDG Number: 03C1558754

Login Number: 9830

List Source: Eurofins Midland

List Number: 2

List Creation: 04/24/26 08:07 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	

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APPENDIX E

Spill Volume Calculation &

NMOCD Correspondence

Location:	PLU Ross Ranch 33-25-30 USA Battery	
Spill Date:	10/3/2025	
Incident #:	NAPP2527929108	
Area 1		
Approximate Area =	4980	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.25	
VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	15.00	bbls
Area 2		
Approximate Area =		sq. ft.
Average Saturation (or depth) of spill =		inches
VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =		bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =		bbls
Total Produced Water =	15.0	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =		bbls
Total Produced Water =	15	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 521792

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 521792
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2527929108
Incident Name	NAPP2527929108 PLU ROSS RANCH 33-25-30 USA BATTERY @ D-33-25S-30E
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU Ross Ranch 33-25-30 USA Battery
Date Release Discovered	10/03/2025
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 15 BBL Recovered: 15 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	3" check valve on main water line

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**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 521792

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 521792
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: NMEEnvNotifications@exxonmobil.com Date: 10/30/2025
--	--

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

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 521792

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 521792
	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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

CONDITIONS

Action 521792

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 521792
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/30/2025



FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 554659

From Woodall, Robert D <robert.d.woodall@exxonmobil.com>

Date Tue 2/17/2026 11:07 AM

To Ben Belill <bbelill@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard <thillard@ensolum.com>

[**EXTERNAL EMAIL**]

FYI

R. Dale Woodall
Project Manager

ExxonMobil Environmental and Property Solutions Company

3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

From: OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>

Sent: Tuesday, February 17, 2026 9:54 AM

To: Woodall, Robert D <robert.d.woodall@exxonmobil.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 554659

To whom it may concern (c/o Robert Woodall for XTO ENERGY, INC),

The OCD has approved the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAPP2527929108, with the following conditions:

- **OCD has uploaded a copy of the variance request email chain, including OCD's denial of the variance request, to the incident file.**

The signed IM-BNF can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Brittany Hall
Environmental Field Compliance Supervisor
505-517-5333
Brittany.Hall@emnrd.nm.gov

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

Santa Fe, NM 87505

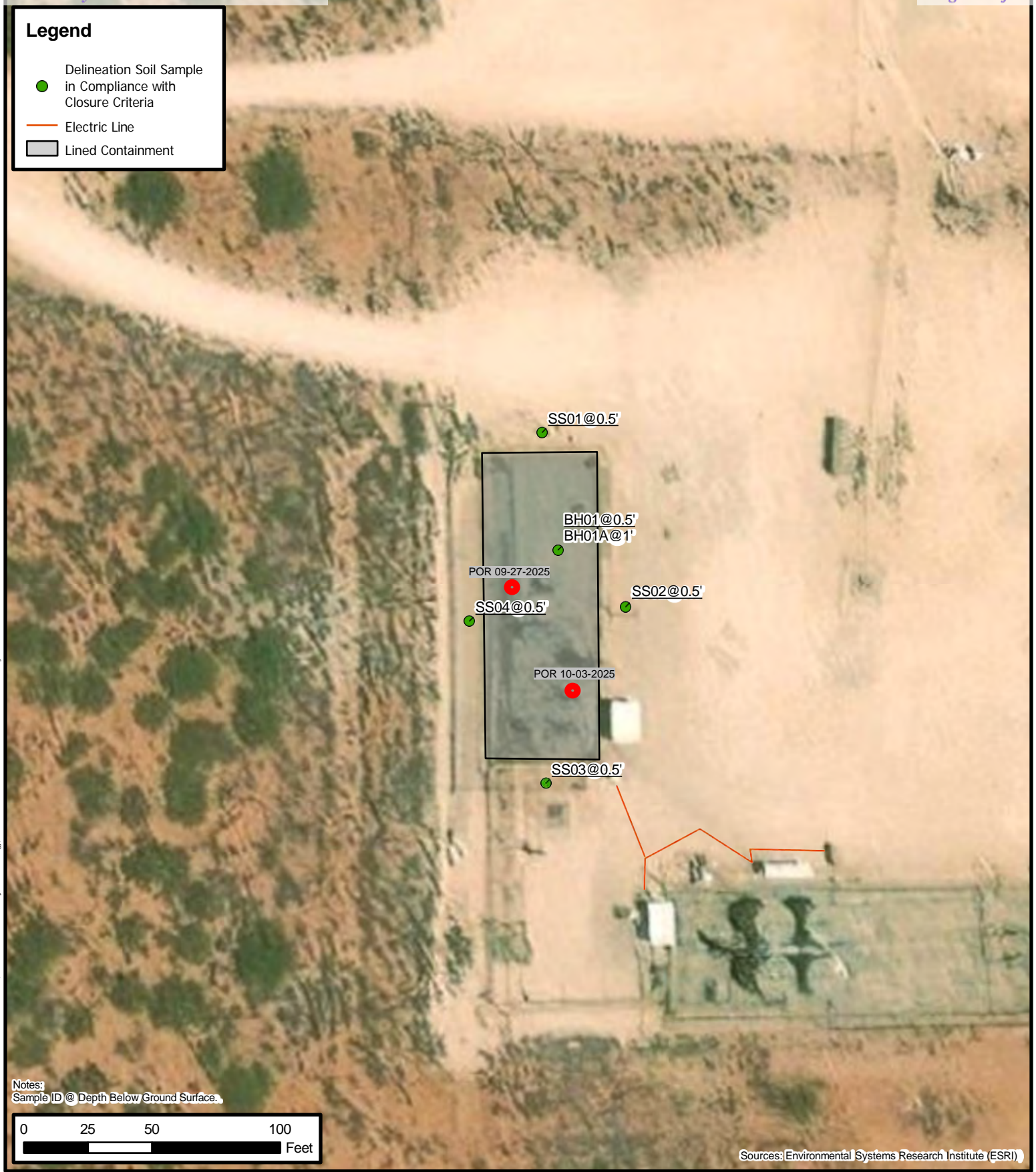


Supporting Documentation for Variance Request
PLU Ross Ranch 33-25-30 USA Battery
Incident Number nAPP2527929108

FIGURES

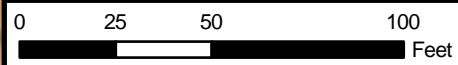
Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Line
- Lined Containment



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Project\XTO Energy - Inc\031558754 - PLU Ross Ranch 33-25-30 USA Battery

Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

XTO Energy, Inc
 PLU Ross Ranch 33-25-30 USA Battery
 Incident Number: nAPP2527230287 and nAPP2527929108
 Unit D, Section 33, T 25S, R 30E
 Eddy County, New Mexico

FIGURE
2





TABLES



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

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS04	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
BH01	10/23/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
BH01A	10/23/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400

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



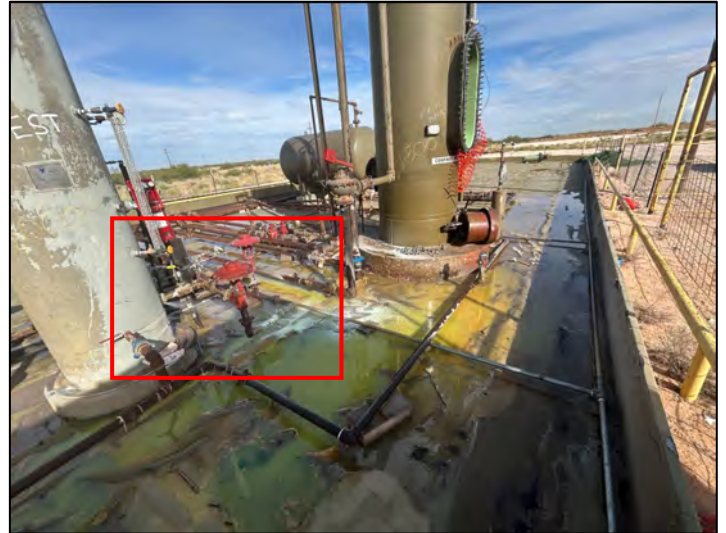
Photographic Log



Photographic Log
XTO Energy, Inc.
PLU Ross Ranch 33-35-30 USA Battery
Eddy County, New Mexico



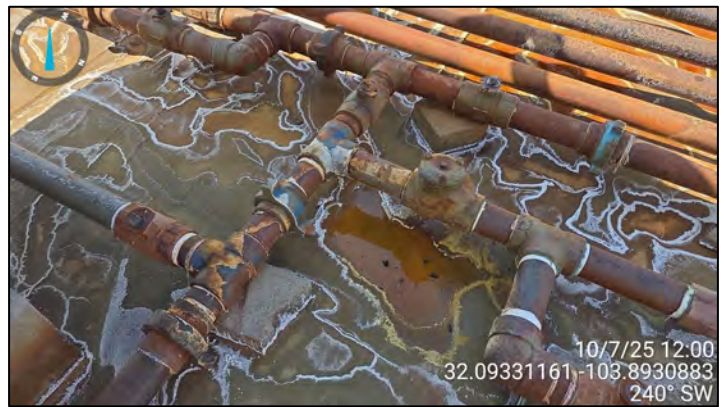
Photograph: 1 Date: 09/27/2025
Description: Initial release observed for Incident Number nAPP2527230287
POR located at approximately 32.09331°, -103.89309°



Photograph: 2 Date: 10/03/2025
Description: Initial release observed for Incident Number nAPP2527929108
POR located at approximately 32.09321°, -103.89301°



Photograph: 3 Date: 10/07/2025
Description: Well sign during liner inspection activities
View: South



Photograph: 4 Date: 10/07/2025
Description: POR for Incident Number nAPP2527230287 observed during liner inspection activities.
View: Southwest



Photographic Log
XTO Energy, Inc.
PLU Ross Ranch 33-35-30 USA Battery
Eddy County, New Mexico



Photograph: 5 Date: 10/07/2025
Description: POR for Incident Number nAPP2527929108 observed during liner inspection activities.
View: North

Photograph: 6 Date: 10/07/2025
Description: Liner inspection activities
View: Northwest



Photograph: 7 Date: 10/07/2025
Description: Liner inspection activities
View: Southeast

Photograph: 8 Date: 10/07/2025
Description: Liner inspection activities
View: South

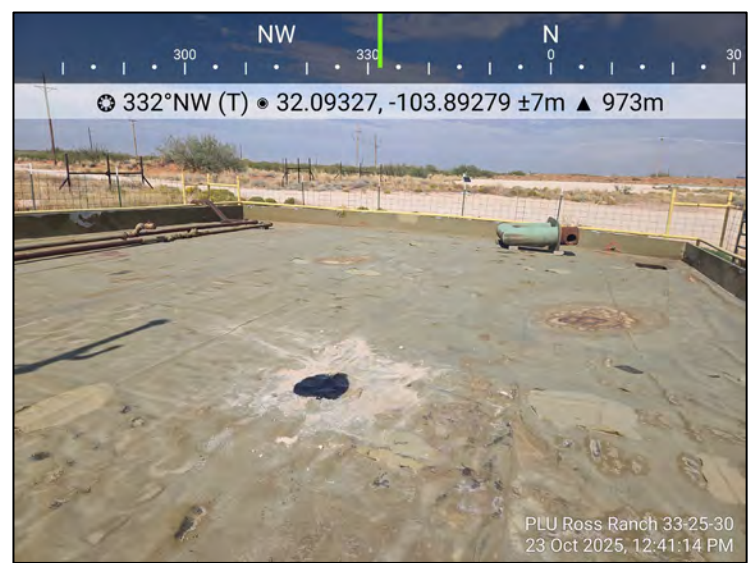
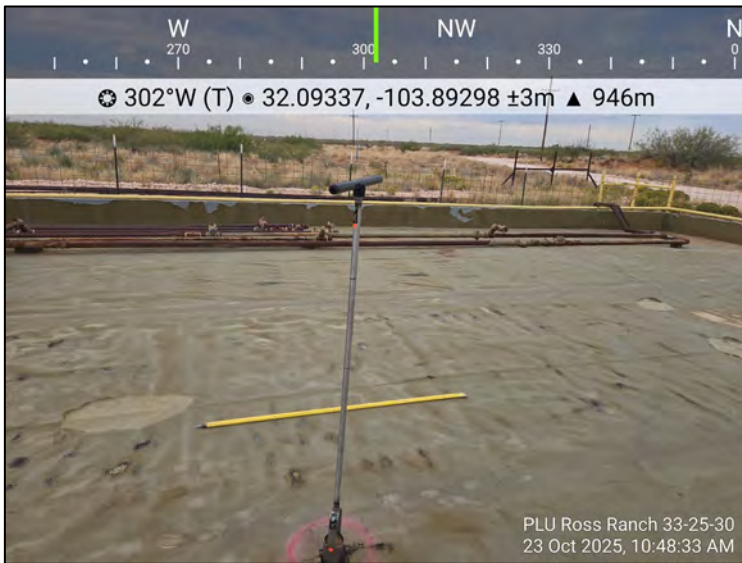


Photographic Log
XTO Energy, Inc.
PLU Ross Ranch 33-35-30 USA Battery
Eddy County, New Mexico



Photograph: 9 Date: 10/07/2025
Description: Damage and breach in the liner observed
View: Northwest

Photograph: 10 Date: 10/07/2025
Description: Damage and breach in the liner observed
View: West



Photograph: 11 Date: 10/23/2025
Description: Delineation activities, BH01, at breach in the liner
View: Northwest

Photograph: 12 Date: 10/23/2025
Description: Liner patching activities at BH01
View: Northwest



FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 543690

From Woodall, Robert D <robert.d.woodall@exxonmobil.com>

on behalf of

NM Env Notifications /SM <NMEnvNotifications@exxonmobil.com>

Date Wed 2/18/2026 3:19 PM

To Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Jeremy Reich <jreich@ensolum.com>

Cc Kotzur, Richard <richard.kotzur@exxonmobil.com>

[**EXTERNAL EMAIL**]

See OCD comments below.

R. Dale Woodall

Remediation Portfolio Manager

Sustainability - Environmental Solutions

3104 E. Greene St.

Carlsbad, NM 88220

Cell Phone: 575-988-4374

Robert.D.Woodall@exxonmobil.com

From: OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>

Sent: Wednesday, February 18, 2026 7:41 AM

To: NM Env Notifications /SM <NMEnvNotifications@exxonmobil.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 543690

To whom it may concern (c/o Richard Kotzur for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2527929108, for the following reasons:

- **OCD received an email requesting a variance for the use the notifications submitted for Incident Number nAPP2527230287 for Incident Number nAPP2527929108, including the notification of liner inspection for October 7, 2025, and the sampling notification for October 23, 2025. On 12/18/2025, the OCD denied the variance request and required XTO a five-foot by five-foot (5' x 5') square to be cut in the liner at the location of each breach and each identified weakened area, as well as any additional areas discovered during the investigation. A five-point composite soil sample must be collected from each exposed area and analyzed for TPH, BTEX, and chlorides using the analytical methods specified in Table I of 19.15.29 NMAC. All affected areas must be vertically and horizontally delineated pursuant to 19.15.29.11(A)(5)(b) NMAC and remediated in accordance with 19.15.29.12 NMAC. The required sampling was not performed.**

- **In email correspondence to XTO, XTO must submit the required information, including appropriate sampling notifications, accurate and complete report(s), and documentation demonstrating compliance with the above-referenced directives through the OCD Permitting website no later than March 17, 2026.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 543690.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Brittany Hall

Environmental Field Compliance Supervisor

505-517-5333

Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 566780

From Woodall, Robert D <robert.d.woodall@exxonmobil.com>
on behalf of
NM Env Notifications /SM <NMEnvNotifications@exxonmobil.com>

Date Mon 4/13/2026 4:20 PM

To Ben Belill <bbelill@ensolum.com>; Jeremy Reich <jreich@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard <thillard@ensolum.com>

[**EXTERNAL EMAIL**]

See below

R. Dale Woodall

Remediation Portfolio Manager

Sustainability - Environmental Solutions

3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

From: OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>
Sent: Monday, April 13, 2026 2:24 PM
To: NM Env Notifications /SM <NMEnvNotifications@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 566780

To whom it may concern (c/o robert woodall for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2527929108, for the following reasons:

- **Remediation closure denied as the previous reasons of rejection were not followed. XTO was instructed to cut a “five-foot by five-foot (5’ x 5’) square to be cut in the liner at the location of each breach and each identified weakened area, as well as any additional areas discovered during the investigation.” This was not done. Referring to Photograph 8, there are two holes shown and only one of the two is shown to have the square cut into it in order to obtain the required confirmation sample. The other breach is required to be cut and sampled. A C-141N is required to be submitted at least two business days prior to sample collection.**
- **An updated report is due to the OCD by 6/12/26.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 566780.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

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

QUESTIONS

Action 584293

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2527929108
Incident Name	NAPP2527929108 PLU ROSS RANCH 33-25-30 USA BATTERY @ D-33-25S-30E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU ROSS RANCH 33-25-30 USA BATTERY
Date Release Discovered	10/03/2025
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 15 BBL Recovered: 15 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	3" check valve on main water line

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QUESTIONS, Page 2

Action 584293

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: NMEEnvNotifications@exxonmobil.com Date: 05/12/2026
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QUESTIONS, Page 3

Action 584293

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
	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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 300 and 500 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	464
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	10/03/2025
On what date will (or did) the final sampling or liner inspection occur	10/23/2025
On what date will (or was) the remediation complete(d)	10/23/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
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	0
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 584293

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
	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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes

Other Non-listed Remedial Process. Please specify

Laboratory analytical results for the soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. Ensolum patched the holes in the liner following completion of delineation activities. Delineation of potential impacts at this Site determined that no soil exceeding the Site Closure Criteria was 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.

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: 05/12/2026

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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Action 584293

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
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QUESTIONS

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

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Action 584293

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	575871
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/23/2026
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0

Summarize any additional remediation activities not included by answers (above)	On February 26, and April 23, 2026, personnel returned to the site and cut two 5 ft by 5-ft holes in the liner and conducted additional sampling of the soil in the exposed area of the containment. Laboratory analytical results for all confirmation soil samples indicated all COCs were compliant with the Site Closure Criteria. Delineation, and additional assessment, of potential impacts at the site determined that no soil exceeding the Site Closure Criteria was located below the containment. Ensolum patched the holes in the liner following completion of delineation activities. 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 nAPP2527929108.
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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: 05/12/2026
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Action 584293

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 584293

CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 584293
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/21/2026