



October 14, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU 295
Incident Number nAPP2519950474
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 assessment, excavation, and soil sampling activities at the PLU 295 (Site). The purpose of the assessment and sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water and crude oil on a lease road and into the pasture. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing assessment, excavation, and soil sampling activities that have occurred and requesting no further action for Incident Number nAPP2519950474.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 19, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20795°, -103.92573°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 17, 2025, corrosion on a flow line resulted in the release of approximately 5 barrels (bbls) of produced water and 1 bbl of crude oil onto the surface of an active lease road and into the pasture of a reclaimed pad. A vacuum truck was dispatched and approximately 1 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and an Initial C-141 Application (C-141) on July 18, 2025. The release was assigned Incident Number nAPP2519950474.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on nearby groundwater data from a soil boring permitted by New Mexico Office of the State Engineer (NMOSE) (C-04676) located approximately 0.65 miles east of the Site. In November 2022, C-04676 was completed to a depth of 120 feet bgs and was subsequently plugged and abandoned per NMOSE requirements. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 1,420 feet northeast 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 unstable geology (low potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On July 17, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release occurred across an active lease road and into the adjacent reclaimed pad. The release extent on the lease road was immediately scraped to prevent traffic from extending any potential impacts. The release extent was mapped with a Global Positioning System (GPS) and is depicted on Figure 2.

On July 25, 2025, Ensolum personnel were on Site to oversee excavation activities of the lease road area. Excavation activities were performed using heavy equipment. To direct excavation activities, Ensolum personnel screened soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), PetroFLAG[®] analyzer system, and chloride utilizing Hach[®] chloride QuanTab[®] test strips. The lease road was excavated in two sections, each subsequently backfilled immediately, following a review of field screenings to ensure compliance with Closure Criteria, to restore traffic access. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. Following the collection of confirmation soil samples FS01, collected at a depth of 1.5 feet bgs, and SW01 collected at depths ranging from 0-1.5 feet bgs, the eastern portion of the lease road was immediately backfilled and excavation of the western portion of the road began. Following the collection of confirmation soil samples FS02, collected at a depth of 1.5 feet bgs, and SW02, collected at depths ranging from 0-1.5 feet bgs, the western portion of the lease road was immediately backfilled to restore traffic access.

On July 28, 2025, Ensolum personnel returned to the Site to finalize excavation of the pasture area. Excavation activities were performed using heavy equipment. To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. All 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS03 through FS11 were collected from the floor of the excavation at a depth of 4 feet bgs. Confirmation soil samples, SW03 through SW06, were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The final excavation extent, encompassing the road and pasture excavation, and soil sample locations were

mapped utilizing a handheld GPS 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.

The final excavation extent measured approximately 2,134 square feet. A total of approximately 280 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal in Hobbs, New Mexico. The final excavation extent was backfilled with material purchased locally and recontoured to match pre-existing Site conditions. Two representative 5-point composite samples (BF Top Soil and BF Caliche) were collected from the topsoil and caliche backfill materials. The backfill soil samples were transported under strict chain-of-custody procedures to Cardinal or Eurofins Laboratory in Carlsbad, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation soil samples indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results for the backfill soil samples confirmed compliance with the reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix C.

RECLAMATION PLAN

The soil in the vicinity of the release area includes predominately fine sands (Kermit-Berino fine sands, 0 to 3 percent slopes). The Site will be seeded with BLM seed mix #2 for sandy sites at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Sands dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site. Reclamation activities will be documented via on-site monitoring and photographs will be included in a *Re-Vegetation Report*.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 17, 2025 release of produced water and crude oil. Laboratory analytical results for all confirmation soil samples

XTO Energy, Inc
Closure Request
PLU 295



indicated all COCs were compliant with the Closure Criteria and reclamation requirements. Based on laboratory analytical results, no further remediation was required.

A *Re-vegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

Excavation of the impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2519950474.

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

Sincerely,

Ensolum, LLC

Tracy Hillard
Project Engineer

Tacoma Morrissey
Associate Principal

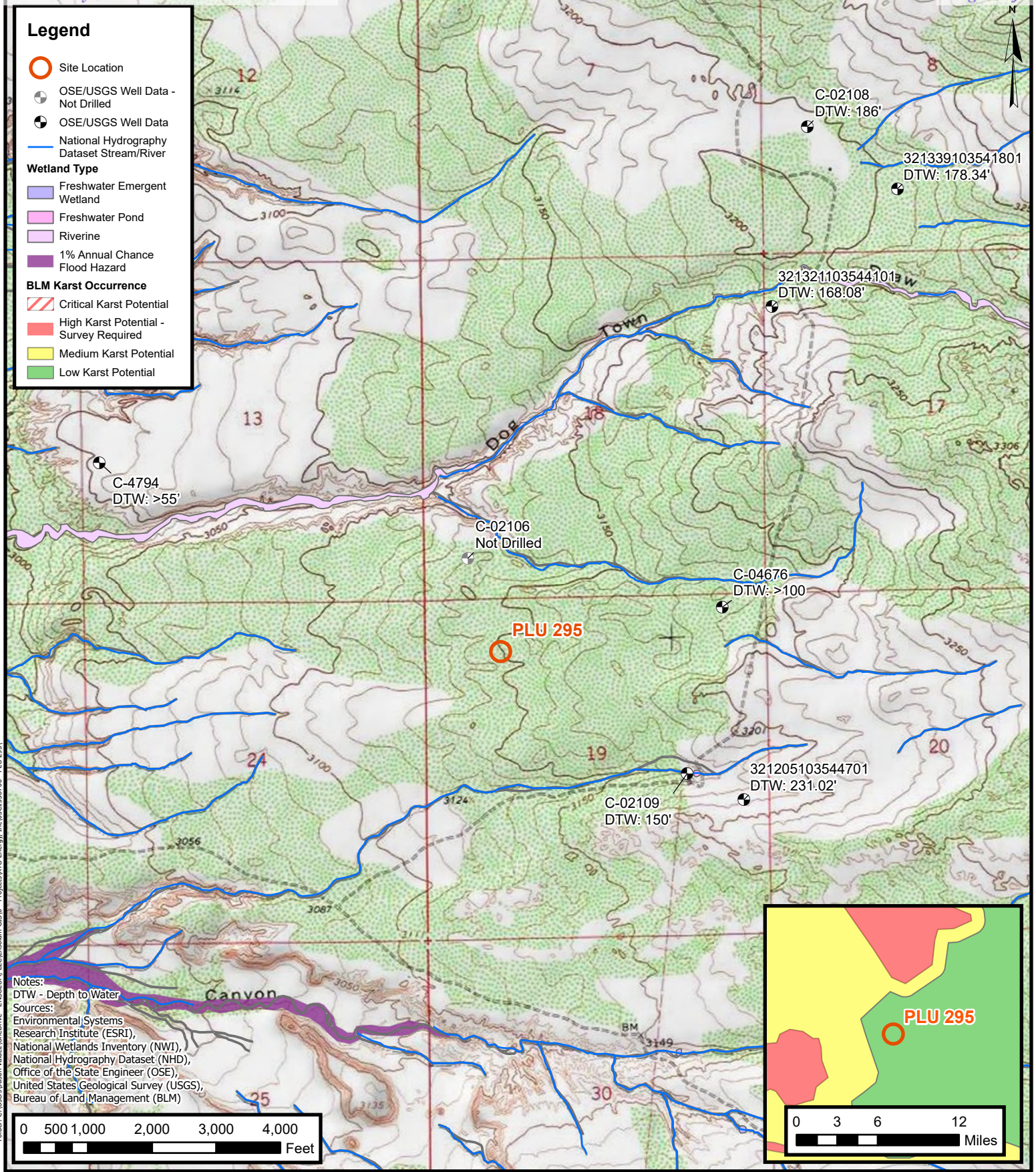
cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

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



FIGURES

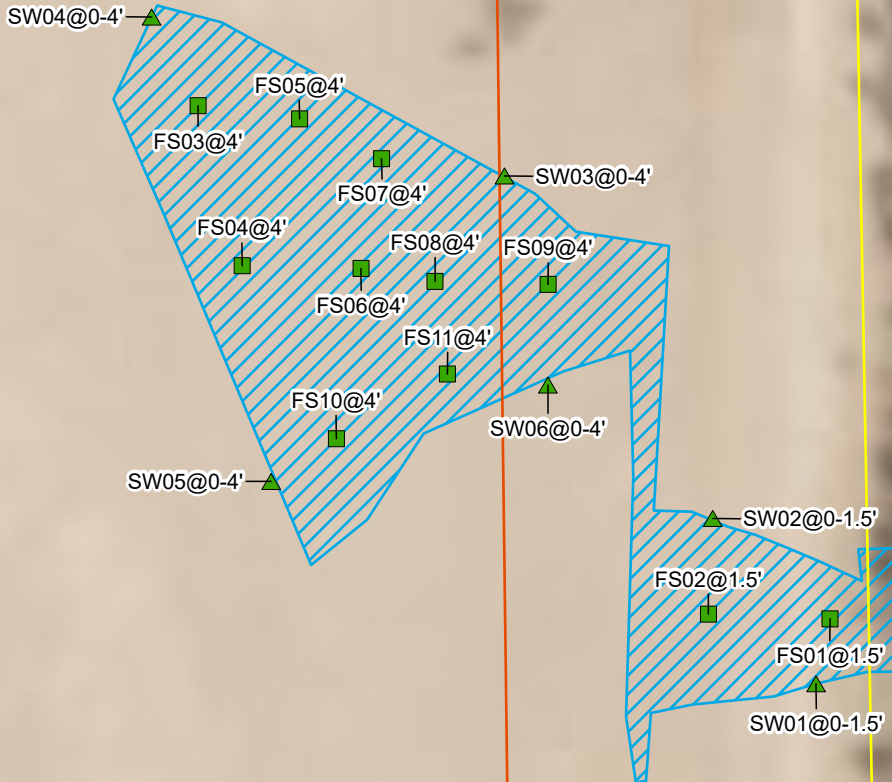


Site Receptor Map
 XTO Energy, Inc
 PLU 295
 Incident Number: nAPP2519950474
 Unit D, Sec 19, T 24S, R 30E
 Eddy County, New Mexico

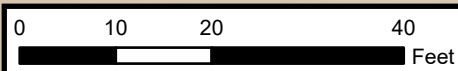
FIGURE
1

Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Oil and Gas Utility
- Electric Cable
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations



XTO Energy, Inc.
 PLU 295
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 Unit D, Section 19, T 24S, R 30E
 Eddy County, New Mexico

FIGURE
2



TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 295
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
Confirmation Soil Samples										
FS01	07/25/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS02	07/25/2025	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS04	07/28/2025	4	<0.050	<0.300	<10.0	33.9	<10.0	33.9	33.9	48.0
FS05	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS06	07/28/2025	4	<0.050	<0.300	<10.0	27.1	<10.0	27.1	27.1	144
FS07	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS08	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS09	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS10	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	07/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW01	07/25/2025	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW02	07/25/2025	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW03	07/28/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW04	07/28/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	07/28/2025	0-4	<0.050	<0.300	<10.0	58.7	<10.0	58.7	58.7	<16.0
SW06	07/28/2025	0-4	<0.050	<0.300	<10.0	22.4	<10.0	22.4	22.4	272
Backfill Soil Sample										
BF Top Soil	09/29/2025	Surface	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	32.6
BF Caliche	07/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

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

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

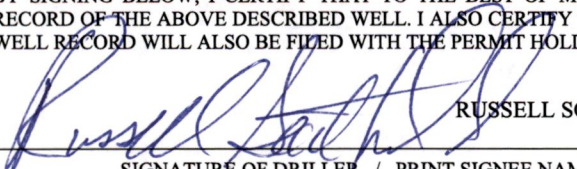
OSE DIT DEC 21 2022 PM 3:14

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04676 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04676		
	WELL OWNER NAME(S) XTO ENERGY INC				PHONE (OPTIONAL) 575-200-0729		
	WELL OWNER MAILING ADDRESS 3104 E GREENE ST				CITY CARLSBAD	STATE NM	ZIP 88220
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 12	32.66	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	-103	54	50.95	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE POKER LAKE UNIT # 231							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184	NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE			
	DRILLING STARTED 11/22/22	DRILLING ENDED 11/22/22	DEPTH OF COMPLETED WELL (FT) 120	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				

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				
				N/A		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/19)			
FILE NO. C-04676	POD NO. 1	TRN NO. 736286			
LOCATION 245.30E.19.1.2.2	WELL TAG ID NO.			PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			Y	N	
	0	1		CALICHIE PAD	Y	✓ N	
	1	120		RED SAND	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):		
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: DRY HOLE					0.00		
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:						
	OSE 011 DEC 21 2022 PM 3:14						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.  _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME					_____ 11/22/2022 DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO. C-04676	POD NO. 1	TRN NO. 736286	
LOCATION 245.30E.19.1.2.2.	WELL TAG ID NO.	PAGE 2 OF 2	



APPENDIX B

Photographic Log



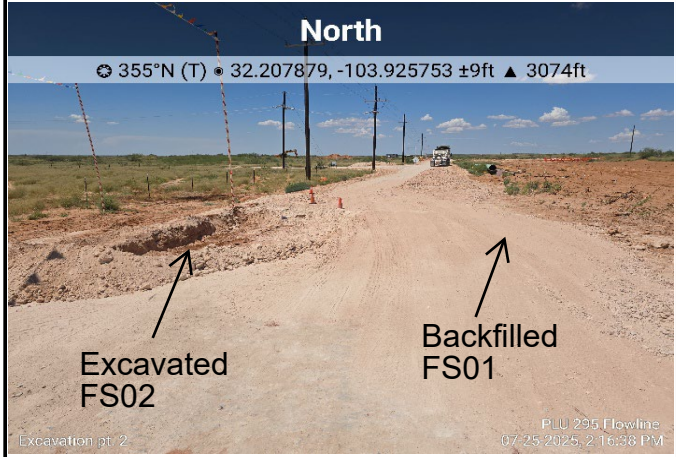
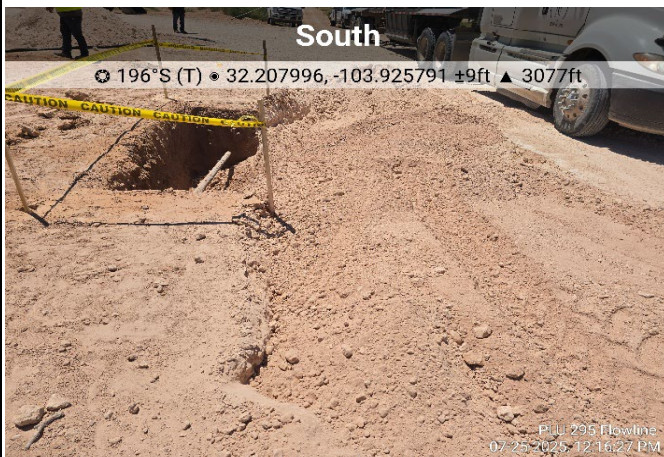
Photographic Log

XTO Energy Inc
PLU 295
nAPP2519950474



Photograph: 1 Date: 7/17/2025
Description: Initial release extent
View: Southwest

Photograph: 2 Date: 7/17/2025
Description: Initial release extent
View: South



Photograph: 3 Date: 7/25/2025
Description: Excavation activities; near FS01
View: South

Photograph: 4 Date: 7/25/2025
Description: Backfilled FS01; Excavation near FS02
View: North



Photographic Log

XTO Energy Inc

PLU 295

nAPP2519950474



Photograph: 5 Date: 7/25/2025
 Description: Backfilled FS01 and FS02
 View: Northeast



Photograph: 6 Date: 7/28/2025
 Description: Excavation extent; near FS03
 View: Southeast



Photograph: 7 Date: 9/28/2025
 Description: Excavation extent; near FS10
 View: North



Photograph: 8 Date: 9/28/2025
 Description: Excavation extent; near FS07
 View: South



Photographic Log

XTO Energy Inc
PLU 295
nAPP2519950474



Photograph: 9 Date: 7/28/2025
Description: Excavation extent; near FS04
View: Northeast

Photograph: 10 Date: 9/29/2025
Description: Backfilled excavation; near FS07
View: East



Photograph: 11 Date: 9/29/2025
Description: Backfilled excavation; near FS03
View: Southeast

Photograph: 12 Date: 9/29/2025
Description: Backfilled excavation; near FS02
View: North



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 28, 2025

ASHLEY HOLMES

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 295 FLOWLINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 16:31.

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 For Alyssa Parras

Login



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

Analytical Results For:

ENSOLUM
 ASHLEY HOLMES
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20795-103.92573		

Sample ID: BF CALICHE (H254556-01)

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	07/26/2025	ND	1.96	98.1	2.00	1.15	
Toluene*	<0.050	0.050	07/26/2025	ND	1.93	96.4	2.00	1.73	
Ethylbenzene*	<0.050	0.050	07/26/2025	ND	2.02	101	2.00	2.67	
Total Xylenes*	<0.150	0.150	07/26/2025	ND	6.39	107	6.00	2.62	
Total BTEX	<0.300	0.300	07/26/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/28/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 67.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene For Alyssa Parras, Login



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene For Alyssa Parras, Login



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ashley Holmes

Address: 3122 National Parks Hwy

City: Carlsbad

State: NIM Zip: 88220

Phone #: 713-817-1947

Fax #:

Project #: 0361558706

Project Owner:

Project Name: PLU 295 Flowline - 585115

Project Location: 32, 20795, -103, 9 2573

Sampler Name: MARTO SACHA'S

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO Energy

Attn: COLTON BROWN

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
1	BFCALINE	-	G	1								7/27/25	1200	BTEX TPH Chlorides
<i>MRS</i>														

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Relinquished By: *[Signature]* Date: 7/29/25
 Received By: *[Signature]* Date: 10/31

Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: 37.5
 Corrected Temp. °C: 4.2

Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*

Turnaround Time: Standard Rush
 Remarks: ENSOLUM.COM / MARTO SACHA'S @ ENSOLUM.COM
 Phone: 713-817-1947
 Fax: 713-817-1948
 Email: martos@ensolum.com



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

July 28, 2025

ASHLEY HOLMES

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 295 FLOWLINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/25/25 16:31.

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 For Alyssa Parras

Login



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

Analytical Results For:

ENSOLUM
 ASHLEY HOLMES
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20795-103.92573		

Sample ID: FS 01 1.5 (H254558-01)

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	07/26/2025	ND	1.94	96.9	2.00	9.26	
Toluene*	<0.050	0.050	07/26/2025	ND	2.05	103	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/26/2025	ND	2.07	103	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/26/2025	ND	6.51	108	6.00	6.08	
Total BTEX	<0.300	0.300	07/26/2025	ND					

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

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	07/28/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 99.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Celey D. Keene For Alyssa Parras, Login



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

Analytical Results For:

ENSOLUM
 ASHLEY HOLMES
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20795-103.92573		

Sample ID: SW 01 0-1.5 (H254558-02)

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	07/26/2025	ND	1.94	96.9	2.00	9.26	
Toluene*	<0.050	0.050	07/26/2025	ND	2.05	103	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/26/2025	ND	2.07	103	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/26/2025	ND	6.51	108	6.00	6.08	
Total BTEX	<0.300	0.300	07/26/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/28/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	198	99.2	200	1.91	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

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Celey D. Keene For Alyssa Parras, Login



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

Analytical Results For:

ENSOLUM
 ASHLEY HOLMES
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20795-103.92573		

Sample ID: FS 02 1.5 (H254558-03)

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	07/26/2025	ND	1.94	96.9	2.00	9.26		
Toluene*	<0.050	0.050	07/26/2025	ND	2.05	103	2.00	9.57		
Ethylbenzene*	<0.050	0.050	07/26/2025	ND	2.07	103	2.00	6.88		
Total Xylenes*	<0.150	0.150	07/26/2025	ND	6.51	108	6.00	6.08		
Total BTEX	<0.300	0.300	07/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/28/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	198	99.2	200	1.91		
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	222	111	200	3.96		
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND						

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.8 % 40.6-153

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Celey D. Keene For Alyssa Parras, Login



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

Analytical Results For:

ENSOLUM
 ASHLEY HOLMES
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/25/2025	Sampling Date:	07/25/2025
Reported:	07/28/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.20795-103.92573		

Sample ID: SW 02 0-1.5 (H254558-04)

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	07/26/2025	ND	1.94	96.9	2.00	9.26	
Toluene*	<0.050	0.050	07/26/2025	ND	2.05	103	2.00	9.57	
Ethylbenzene*	<0.050	0.050	07/26/2025	ND	2.07	103	2.00	6.88	
Total Xylenes*	<0.150	0.150	07/26/2025	ND	6.51	108	6.00	6.08	
Total BTEX	<0.300	0.300	07/26/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/28/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2025	ND	220	110	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/26/2025	ND	202	101	200	0.483	
EXT DRO >C28-C36	<10.0	10.0	07/26/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene For Alyssa Parras, Login



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

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Celey D. Keene

Celey D. Keene For Alyssa Parras, Login



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: ASHLEY HOLMES

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 713-817-1947

Project #: 0361558706

Project Name: PLV 295 Flowline - Spills

Project Location: 32,20795,-103,92573

Sampler Name: MARCO SATHI'S

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: XTO ENERGY

Attn: COTTON BROWN

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H054588	P501	1.5	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/25/25	1141	BTEX
	SW01	0-1.5	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/25/25	1215	TPH
	FS02	1.5	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/25/25	1326	Chlorides
	SW02	0-1.5	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7/25/25	1338	

Handwritten signature: MRS

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*

Date: 7/25/25

Received By: *[Signature]*

Date: 7/25/25

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 37.1

Corrected Temp. °C: 40.0

Sample Condition: Intact Cool

Checked By: *[Signature]*

Turnaround Time: Standard Rush

Bacteria (only) Sample Condition: Intact Observed Temp. °C:

Verbal Result: Yes No Add'l Phone #:

REMARKS: IN IDENT: N/A PP 2519450 474

AP I: 20-015-355-49

MSOL PLS@ENSOLUM.COM + MARCO SATHI'S@ENSOLUM.COM

COX CENTER: 1138551001

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

1061



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

July 30, 2025

ASHLEY HOLMES
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PLU 295 FLOWLINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/29/25 14:15.

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
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 03 4' (H254594-01)

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	07/29/2025	ND	2.02	101	2.00	2.50	
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73	
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61	
Total BTEX	<0.300	0.300	07/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/30/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 04 4' (H254594-02)

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	07/29/2025	ND	2.02	101	2.00	2.50		
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73		
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61		
Total BTEX	<0.300	0.300	07/29/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/30/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65		
DRO >C10-C28*	33.9	10.0	07/29/2025	ND	196	97.9	200	1.94		
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND						

Surrogate: 1-Chlorooctane 91.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153

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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
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 05 4' (H254594-03)

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	07/29/2025	ND	2.02	101	2.00	2.50	
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73	
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61	
Total BTEX	<0.300	0.300	07/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/30/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 06 4' (H254594-04)

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	07/29/2025	ND	2.02	101	2.00	2.50	
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73	
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61	
Total BTEX	<0.300	0.300	07/29/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/30/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65	
DRO >C10-C28*	27.1	10.0	07/29/2025	ND	196	97.9	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 07 4' (H254594-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2025	ND	2.02	101	2.00	2.50	
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73	
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61	
Total BTEX	<0.300	0.300	07/29/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/30/2025	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 08 4' (H254594-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2025	ND	2.02	101	2.00	2.50		
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73		
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61		
Total BTEX	<0.300	0.300	07/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	07/30/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65		
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94		
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND						

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 09 4' (H254594-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2025	ND	2.02	101	2.00	2.50		
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73		
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61		
Total BTEX	<0.300	0.300	07/29/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/30/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65		
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94		
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND						

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 10 4' (H254594-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2025	ND	2.02	101	2.00	2.50		
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73		
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61		
Total BTEX	<0.300	0.300	07/29/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/30/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65		
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94		
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND						

Surrogate: 1-Chlorooctane 93.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: FS 11 4' (H254594-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2025	ND	2.02	101	2.00	2.50		
Toluene*	<0.050	0.050	07/29/2025	ND	2.04	102	2.00	4.73		
Ethylbenzene*	<0.050	0.050	07/29/2025	ND	2.11	105	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/29/2025	ND	6.64	111	6.00	5.61		
Total BTEX	<0.300	0.300	07/29/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/30/2025	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	213	107	200	1.65		
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	196	97.9	200	1.94		
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND						

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:	
Project Manager: Ashly Holmes		Company: XTO Energy, Inc	
Address: 601 N Marientfield Street, Suite 400		Attn: Colton Brown	
City: Midland	State: TX	Zip: 79701	Address: 3104 E Greene St
Phone #: (713) 817-1947	Fax #: 817-1947	City: Carlsbad	State: NM
Project #: 03C1558706	Project Owner: XTO Energy	State: NM	Zip: 88220
Project Name: PLV 995 Flowline	- SPILLS	Phone #:	Fax #:
Project Location: 39,20795, -103.92573			
Sample Name: Trevor Largo			

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 :					
HA84594	FS03	4	C	1							07/28/25	10:25			
	FS04		C	1								10:46			
	FS05		C	1								11:40			
	FS06		C	1								11:57			
	FS07		C	1								12:00			
	FS08		C	1								12:29			
	FS09		C	1								12:33			
	FS10		C	1								14:02			
	FS11		C	1								14:09			

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Relinquished By: *Debra Mucops*

Date: 7-29-25

Received By: *Janita Clarke*

Date: 7-29-25

Time: 1:45

Time: 1:45

Remarks: Incident Number: MAR 2519950474
 Cost Center: 1138551001
 GFCM: 48605000

Delivered By: (Circle One) UPS Bus Other:

Observed Temp. °C: 41.3

Corrected Temp. °C: 41.5

Sample Condition: Cool Intact

Checked By: *AD*

Turnaround Time: Standard Rush

Thermometer ID #13

Correction Factor: -0.3°C

Bacteria (only) Cool Intact

Sample Condition: Observed Temp. °C

Corrected Temp. °C

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



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

July 30, 2025

ASHLEY HOLMES
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PLU 295 FLOWLINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 07/29/25 14:15.

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
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: SW 03 0-4' (H254593-01)

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	07/30/2025	ND	1.97	98.7	2.00	3.51	
Toluene*	<0.050	0.050	07/30/2025	ND	2.13	107	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.19	110	2.00	0.457	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.81	113	6.00	0.229	
Total BTEX	<0.300	0.300	07/30/2025	ND					

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

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	07/30/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	191	95.4	200	2.66	
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	180	90.2	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: SW 04 0-4' (H254593-02)

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	07/30/2025	ND	1.97	98.7	2.00	3.51	
Toluene*	<0.050	0.050	07/30/2025	ND	2.13	107	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.19	110	2.00	0.457	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.81	113	6.00	0.229	
Total BTEX	<0.300	0.300	07/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-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	07/30/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	191	95.4	200	2.66	
DRO >C10-C28*	<10.0	10.0	07/29/2025	ND	180	90.2	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 40.6-153

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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
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: SW 05 0-4' (H254593-03)

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	07/30/2025	ND	1.97	98.7	2.00	3.51	
Toluene*	<0.050	0.050	07/30/2025	ND	2.13	107	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.19	110	2.00	0.457	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.81	113	6.00	0.229	
Total BTEX	<0.300	0.300	07/30/2025	ND					

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

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	07/30/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	191	95.4	200	2.66	
DRO >C10-C28*	58.7	10.0	07/29/2025	ND	180	90.2	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	07/29/2025	Sampling Date:	07/28/2025
Reported:	07/30/2025	Sampling Type:	Soil
Project Name:	PLU 295 FLOWLINE - SPILLS	Sampling Condition:	Cool & Intact
Project Number:	03C1558706	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.20795, -103.92573		

Sample ID: SW 06 0-4' (H254593-04)

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	07/30/2025	ND	1.97	98.7	2.00	3.51	
Toluene*	<0.050	0.050	07/30/2025	ND	2.13	107	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/30/2025	ND	2.19	110	2.00	0.457	
Total Xylenes*	<0.150	0.150	07/30/2025	ND	6.81	113	6.00	0.229	
Total BTEX	<0.300	0.300	07/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/30/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2025	ND	191	95.4	200	2.66	
DRO >C10-C28*	22.4	10.0	07/29/2025	ND	180	90.2	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	07/29/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.6 % 40.6-153

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Ashley Holmes

P.O. #: Company: XTO Energy, Inc

Address: 601 N Marland Street, Suite 400

Attn: Colton Brown

City: Midland State: TX Zip: 79701

Address: 3104 E Greene St

Phone #: (713) 817-1947 Fax #:

City: Carlsbad

Project #: 03 CI 558706 Project Owner: XTO Energy

State: NM Zip: 88220

Project Name: PLU 295 Flow line - SPILLS

Phone #:

Project Location: 32.20795, -103.925703

Fax #:

Sampler Name: Trevor Wingo

Lab I.D.	Sample I.D.	Depth (feet)	FOR LAB USE ONLY		DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
			(G)RAB OR (C)OMP.	# CONTAINERS					
H254593	SM03	0-4			07/28/15	14:20			
	SM04					14:37			
	SM05					14:39			
	SM06								

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Relinquished By: Trevor Wingo Date: 7/29/15 Received By: [Signature] Date: 7/29/15

Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: 41.2 Corrected Temp. °C: 4.5 Sample Condition: Cool Intact Yes Yes No No

Checked By: [Signature] Initials: [Signature] Turnaround Time: Standard 24h Rush 4h Bacteria (only) Sample Condition: Cool Intact Yes Yes No No Corrected Temp. °C: [Blank]

Remarks: Incident Number: 11APR25199 50974 Cost Center: 1138551001 Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: A.Holmes@ensolum.com, J.Bell@ensolum.com, T.Morrissey@ensolum.com, T.Wingo@ensolum.com, J.Hilliard@ensolum.com, K.Thomason@ensolum.com



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 10/3/2025 10:38:46 AM

JOB DESCRIPTION

PLU 295 FLOWLINE
03C1558706

JOB NUMBER

890-8885-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



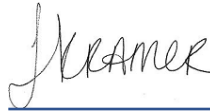
Eurofins Carlsbad

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
10/3/2025 10:38:46 AM

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 295 FLOWLINE

Laboratory Job ID: 890-8885-1
SDG: 03C1558706

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: PLU 295 FLOWLINE

Job ID: 890-8885-1

Job ID: 890-8885-1

Eurofins Carlsbad

Job Narrative 890-8885-1

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 9/29/2025 1:32 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 3.4°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BF TOP SOIL (890-8885-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-120047/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 295 FLOWLINE

Job ID: 890-8885-1
 SDG: 03C1558706

Client Sample ID: BF TOP SOIL

Lab Sample ID: 890-8885-1

Date Collected: 09/29/25 09:15

Matrix: Solid

Date Received: 09/29/25 13:32

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		10/01/25 08:00	10/01/25 17:04	1
Toluene	0.00205		0.00200	mg/Kg		10/01/25 08:00	10/01/25 17:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 17:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/01/25 08:00	10/01/25 17:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 17:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/01/25 08:00	10/01/25 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	10/01/25 08:00	10/01/25 17:04	1
4-Bromofluorobenzene (Surr)	81		70 - 130	10/01/25 10:22	10/01/25 23:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/01/25 08:00	10/01/25 17:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	10/01/25 10:22	10/01/25 23:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			10/01/25 17:04	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			10/03/25 06:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/25 08:08	10/03/25 06:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/25 08:08	10/03/25 06:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/25 08:08	10/03/25 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/30/25 08:08	10/03/25 06:04	1
o-Terphenyl	129		70 - 130	09/30/25 08:08	10/03/25 06:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.6		2.00	mg/Kg			10/01/25 11:48	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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)
890-8885-1	BF TOP SOIL	91	100
890-8885-1	BF TOP SOIL	81	95
890-8885-1 MS	BF TOP SOIL	88	92
890-8885-1 MSD	BF TOP SOIL	90	92
LCS 880-120009/1-A	Lab Control Sample	96	93
LCS 880-120169/1-A	Lab Control Sample	89	89
LCS 880-120009/2-A	Lab Control Sample Dup	90	94
LCS 880-120169/2-A	Lab Control Sample Dup	86	96
MB 880-120009/5-A	Method Blank	78	93
MB 880-120169/5-A	Method Blank	77	98

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)
890-8882-A-33-B MS	Matrix Spike	92	112
890-8882-A-33-C MSD	Matrix Spike Duplicate	101	123
890-8885-1	BF TOP SOIL	105	129
LCS 880-120047/2-A	Lab Control Sample	108	126
LCS 880-120047/3-A	Lab Control Sample Dup	115	135 S1+
MB 880-120047/1-A	Method Blank	108	124

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-120009/5-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120009

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 11:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 11:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/01/25 08:00	10/01/25 11:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/25 08:00	10/01/25 11:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/01/25 08:00	10/01/25 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	10/01/25 08:00	10/01/25 11:43	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/01/25 08:00	10/01/25 11:43	1

Lab Sample ID: LCS 880-120009/1-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08908		mg/Kg		89	70 - 130
Toluene	0.100	0.1019		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09771		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1963		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09624		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-120009/2-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120009

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08723		mg/Kg		87	70 - 130	2	35
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.09246		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130	7	35
o-Xylene	0.100	0.08958		mg/Kg		90	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-120169/5-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120169

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/01/25 10:22	10/01/25 22:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/01/25 10:22	10/01/25 22:43	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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

Lab Sample ID: MB 880-120169/5-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120169

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/01/25 10:22	10/01/25 22:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/01/25 10:22	10/01/25 22:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/01/25 10:22	10/01/25 22:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/01/25 10:22	10/01/25 22:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	10/01/25 10:22	10/01/25 22:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/01/25 10:22	10/01/25 22:43	1

Lab Sample ID: LCS 880-120169/1-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09090		mg/Kg		91	70 - 130
Toluene	0.100	0.09302		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.08322		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1624		mg/Kg		81	70 - 130
o-Xylene	0.100	0.08232		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-120169/2-A
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08889		mg/Kg		89	70 - 130	2	35
Toluene	0.100	0.09008		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.08396		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1628		mg/Kg		81	70 - 130	0	35
o-Xylene	0.100	0.08091		mg/Kg		81	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8885-1 MS
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: BF TOP SOIL
Prep Type: Total/NA
Prep Batch: 120169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07819		mg/Kg		78	70 - 130
Toluene	0.00205		0.100	0.08381		mg/Kg		82	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07838		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1533		mg/Kg		75	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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

Lab Sample ID: 890-8885-1 MS
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: BF TOP SOIL
Prep Type: Total/NA
Prep Batch: 120169

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
o-Xylene	<0.00200	U	0.100	0.07512		mg/Kg		75	70 - 130	
Surrogate	%Recovery	MS MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	88		70 - 130							
1,4-Difluorobenzene (Surr)	92		70 - 130							

Lab Sample ID: 890-8885-1 MSD
Matrix: Solid
Analysis Batch: 120150

Client Sample ID: BF TOP SOIL
Prep Type: Total/NA
Prep Batch: 120169

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier						RPD	Limit	
Benzene	<0.00200	U	0.100	0.07746		mg/Kg		77	70 - 130	1	35		
Toluene	0.00205		0.100	0.08513		mg/Kg		83	70 - 130	2	35		
Ethylbenzene	<0.00200	U	0.100	0.07792		mg/Kg		78	70 - 130	1	35		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1534		mg/Kg		75	70 - 130	0	35		
o-Xylene	<0.00200	U	0.100	0.07521		mg/Kg		75	70 - 130	0	35		
Surrogate	%Recovery	MSD MSD Qualifier	Limits										
4-Bromofluorobenzene (Surr)	90		70 - 130										
1,4-Difluorobenzene (Surr)	92		70 - 130										

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

Lab Sample ID: MB 880-120047/1-A
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120047

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		09/30/25 08:07	10/03/25 02:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/25 08:07	10/03/25 02:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/25 08:07	10/03/25 02:35	1
Surrogate	%Recovery	MB MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			09/30/25 08:07	10/03/25 02:35	1
o-Terphenyl	124		70 - 130			09/30/25 08:07	10/03/25 02:35	1

Lab Sample ID: LCS 880-120047/2-A
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120047

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.0		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	877.9		mg/Kg		88	70 - 130	

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QC Sample Results

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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

Lab Sample ID: LCS 880-120047/2-A
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120047

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-120047/3-A
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120047

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1045		mg/Kg		105	70 - 130	12	20	
Diesel Range Organics (Over C10-C28)	1000	960.8		mg/Kg		96	70 - 130	9	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: 890-8882-A-33-B MS
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 120047

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	849.5		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	763.2		mg/Kg		76	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	92		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-8882-A-33-C MSD
Matrix: Solid
Analysis Batch: 120308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 120047

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	972.4		mg/Kg		97	70 - 130	13	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	859.8		mg/Kg		86	70 - 130	12	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	123		70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
 SDG: 03C1558706

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-120104/1-A
 Matrix: Solid
 Analysis Batch: 120127

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			10/01/25 08:51	1

Lab Sample ID: LCS 880-120104/2-A
 Matrix: Solid
 Analysis Batch: 120127

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-120104/3-A
 Matrix: Solid
 Analysis Batch: 120127

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	258.3		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 880-63160-A-16-D MS
 Matrix: Solid
 Analysis Batch: 120127

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	21.0		49.6	68.93		mg/Kg		97	90 - 110

Lab Sample ID: 880-63160-A-16-E MSD
 Matrix: Solid
 Analysis Batch: 120127

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	21.0		49.6	69.20		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

GC VOA

Prep Batch: 120009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	5035	
MB 880-120009/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-120009/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-120009/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 120150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	8021B	120009
890-8885-1	BF TOP SOIL	Total/NA	Solid	8021B	120169
MB 880-120009/5-A	Method Blank	Total/NA	Solid	8021B	120009
MB 880-120169/5-A	Method Blank	Total/NA	Solid	8021B	120169
LCS 880-120009/1-A	Lab Control Sample	Total/NA	Solid	8021B	120009
LCS 880-120169/1-A	Lab Control Sample	Total/NA	Solid	8021B	120169
LCSD 880-120009/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	120009
LCSD 880-120169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	120169
890-8885-1 MS	BF TOP SOIL	Total/NA	Solid	8021B	120169
890-8885-1 MSD	BF TOP SOIL	Total/NA	Solid	8021B	120169

Prep Batch: 120169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	5035	
MB 880-120169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-120169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-120169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8885-1 MS	BF TOP SOIL	Total/NA	Solid	5035	
890-8885-1 MSD	BF TOP SOIL	Total/NA	Solid	5035	

Analysis Batch: 120310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 120047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	8015NM Prep	
MB 880-120047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-120047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-120047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8882-A-33-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8882-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 120308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	8015B NM	120047
MB 880-120047/1-A	Method Blank	Total/NA	Solid	8015B NM	120047
LCS 880-120047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	120047
LCSD 880-120047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	120047
890-8882-A-33-B MS	Matrix Spike	Total/NA	Solid	8015B NM	120047
890-8882-A-33-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	120047

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QC Association Summary

Client: Ensolum
 Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
 SDG: 03C1558706

GC Semi VOA

Analysis Batch: 120446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 120104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Soluble	Solid	DI Leach	
MB 880-120104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-120104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-120104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-63160-A-16-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-63160-A-16-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 120127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8885-1	BF TOP SOIL	Soluble	Solid	300.0	120104
MB 880-120104/1-A	Method Blank	Soluble	Solid	300.0	120104
LCS 880-120104/2-A	Lab Control Sample	Soluble	Solid	300.0	120104
LCSD 880-120104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	120104
880-63160-A-16-D MS	Matrix Spike	Soluble	Solid	300.0	120104
880-63160-A-16-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	120104

Lab Chronicle

Client: Ensolum
 Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
 SDG: 03C1558706

Client Sample ID: BF TOP SOIL

Lab Sample ID: 890-8885-1

Date Collected: 09/29/25 09:15

Matrix: Solid

Date Received: 09/29/25 13:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	120009	10/01/25 08:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120150	10/01/25 17:04	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	120169	10/01/25 10:22	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120150	10/01/25 23:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			120310	10/01/25 17:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			120446	10/03/25 06:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	120047	09/30/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	120308	10/03/25 06:04	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	10 mL	120104	09/30/25 11:32	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	120127	10/01/25 11:48	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: PLU 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

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 295 FLOWLINE

Job ID: 890-8885-1
SDG: 03C1558706

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8885-1	BF TOP SOIL	Solid	09/29/25 09:15	09/29/25 13:32	New Mexico

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8885-1

SDG Number: 03C1558706

Login Number: 8885

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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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8885-1

SDG Number: 03C1558706

Login Number: 8885

List Source: Eurofins Midland

List Number: 2

List Creation: 09/30/25 07:35 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 D
Spill Calculation

Location:	PLU 295	
Spill Date:	7/18/2025	
Incident #:		
Area 1		
Approximate Area =	1884	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	1.00	bbls
Total Produced Water =	5.00	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 =	1.00	bbls
Total Produced Water =	5.0	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =		bbls
Total Produced Water =	1	bbls

From: [Tacoma Morrissey](#)
To: [Wells, Shelly, EMNRD](#)
Subject: Re: [EXTERNAL] Re: nAPP2519950474 PLU 295
Date: Friday, November 14, 2025 10:45:24 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-jdkjkkmh.png](#)
[Outlook-1b0lszej.png](#)
[Outlook-jtn2avp0.png](#)
[Outlook-mydlqgmz](#)

Hi Shelly,

Sincere apologies for the oversight in not including the timeline. Seeding activities have not been completed, but will be conducted during the next ideal window, which for native grass and seed mixtures is early spring. We typically seed multiple sites once conditions are favorable.

Moving forward, we'll ensure all reclamation plans include a clear timeline.

Thank you for your understanding, and please let me know if you have any questions. Hope you have a great weekend as well!

Thank you,



Tacoma Morrissey

Associate Principal

337-257-8307

Ensolum, LLC

in f X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, November 14, 2025 11:09 AM
To: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: RE: [EXTERNAL] Re: nAPP2519950474 PLU 295

[**EXTERNAL EMAIL**]

Hi Tacoma,

I do have one more question regarding this release. Has the area already been seeded? If not, when does XTO plan to seed it? A timeline is missing from the Reclamation Plan.

Kind regards,

Shelly

Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Tacoma Morrissey <tmorrissey@ensolum.com>
Sent: Friday, November 14, 2025 7:33 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Re: nAPP2519950474 PLU 295

Hi Shelly,

Thank you for your patience, I was out of the office yesterday and missed getting this to you.

I have attached an updated figure with a newer background satellite image. I have also added boundaries showing the road and reclaimed pad as well as three of the photos, that were included in the photolog, with locations to assist in orienting the remediation activities. Let me know if this helps answer your questions or if there is anything else I can do.

Thank you,



Tacoma Morrissey

Associate Principal

337-257-8307

Ensolum, LLC

in f X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, November 12, 2025 4:47 PM
To: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: RE: [EXTERNAL] Re: nAPP2519950474 PLU 295

[**EXTERNAL EMAIL**]

I appreciate it, Tacoma and just one random thing, every time an email comes from you it shows the attachment icon but nothing is attached. Not sure if anyone has mentioned this to you.

Shelly

From: Tacoma Morrissey <tmorrissey@ensolum.com>
Sent: Wednesday, November 12, 2025 11:41 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] Re: nAPP2519950474 PLU 295

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Shelly,

Yes, we'll send an updated figure with some additional imagery options and a figure showing the photo locations. I'll have that to you shortly.

Thank you for reaching out!



Tacoma Morrissey

Associate Principal

337-257-8307

Ensolum, LLC

in f X

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, November 12, 2025 11:44 AM
To: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: nAPP2519950474 PLU 295

[**EXTERNAL EMAIL**]

Hi Tacoma,

I am reviewing the submitted remediation closure report for nAPP2519950474 PLU 295 and have a difficult time understanding where this occurred on the previously reclaimed pad. Figure 2 does not show any of the 4' depth excavation as occurring in the pasture however photos show otherwise. The Figure provided does not show the road on the east side of the pad as I see on OCD Oil and Gas map and Google Earth. Can you provide a better Figure which includes the road and show me where the excavations took place?

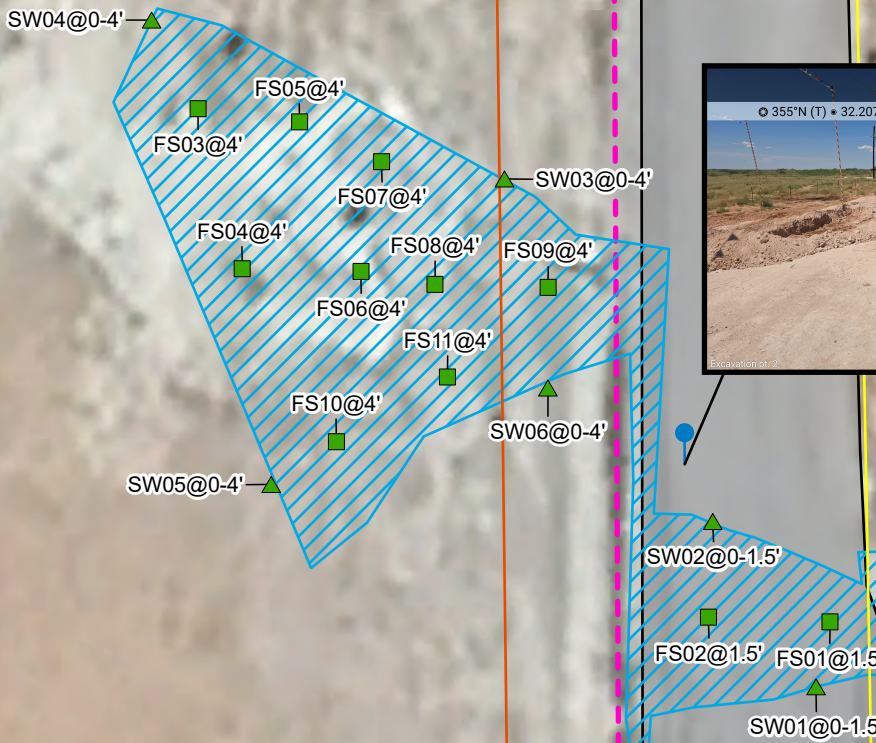
Kind regards,

Shelly

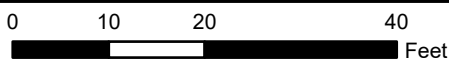
Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- Reclamation Area
- Road
- Oil and Gas Utility
- Electric Cable
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations

XTO Energy, Inc.
 PLU 295 Flowline Release
 Incident Number: nAPP2519950474
 Unit D, Section 19, T 24S, R 30E
 Eddy County, New Mexico

FIGURE

3



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

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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

Action 515455

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519950474
Incident Name	NAPP2519950474 PLU 295 @ 30-015-35549
Incident Type	Release Other
Incident Status	Reclamation Report Received
Incident Well	[30-015-35549] POKER LAKE UNIT #295

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 295
Date Release Discovered	07/17/2025
Surface Owner	Federal

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

Nature and Volume of Release	
<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	Cause: Corrosion Flow Line - Production Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 5 BBL Recovered: 1 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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: 10/15/2025
--	--

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QUESTIONS, Page 3

Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	384
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58.7
GRO+DRO (EPA SW-846 Method 8015M)	58.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/25/2025
On what date will (or did) the final sampling or liner inspection occur	09/29/2025
On what date will (or was) the remediation complete(d)	09/29/2025
What is the estimated surface area (in square feet) that will be reclaimed	2134
What is the estimated volume (in cubic yards) that will be reclaimed	280
What is the estimated surface area (in square feet) that will be remediated	2134
What is the estimated volume (in cubic yards) that will be remediated	280
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	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)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/15/2025
--	---

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

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 5

Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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

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Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	509032
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2025
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	2134
What was the total volume (cubic yards) remediated	280
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	2134
What was the total volume (in cubic yards) reclaimed	280
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the July 17, 2025 release of produced water and crude oil. Laboratory analytical results for all confirmation soil samples indicated all COCs were compliant with the Closure Criteria and reclamation requirements. Based on laboratory analytical results, no further remediation was required.

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: 10/15/2025
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Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Yes
What was the total reclamation surface area (in square feet) for this site	2134
What was the total volume of replacement material (in cubic yards) for this site	280
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	04/15/2026
Summarize any additional reclamation activities not included by answers (above)	The Site will be seeded with BLM seed mix #2 for sandy sites at the rate specified in pounds of pure live seed (PLS) per acre. The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site. Reclamation activities will be documented via on-site monitoring and photographs will be included in a Re-Vegetation Report.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. 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: 10/15/2025

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Action 515455

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 515455

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 515455
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/14/2025