ENSOLUM

April 3, 2026

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

Re: Closure Request
Poker Lake Unit 330H Flow Line
Incident Number nAB1926638462
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, delineation, excavation, and soil sampling activities at the Poker Lake Unit 330H Flow Line (Site). The purpose of the remedial activities was to address impacts to soil following a release of produced water along a lease road and into the adjacent pasture area. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remedial activities that have occurred and requesting no further remediation for Incident Number nAB1926638462.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.197505°, -103.827318°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On August 13, 2019, a buried section of the flow line at a road crossing developed a hole due to corrosion resulting in the release of 7 barrels (bbls) of produced water and 1 bbl of crude oil onto the lease road and into the adjacent pasture area. A vacuum truck was immediately dispatched to the Site, 4 bbls of produced water were recovered; no crude oil was recovered. XTO submitted an Initial C-141 Application (C-141) on August 27, 2019, to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Remediation Permit (RP) number 2RP-5620 and Incident Number nAB1926638462.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest depth to groundwater data is soil boring C-03558 POD-5 located 0.19 miles to the southwest of the Site. The soil boring was drilled to a total depth of 30 feet below ground surface (bgs); no groundwater or moisture was observed. The Site is defined to the southwest, northwest, and northeast by nearby OSE permitted wells showing depth to water greater than 100 feet bgs. On October 7, 2020, OSE permitted well C-4478 POD1, located 0.62 miles to the southwest of the Site, was drilled to a depth of 110 feet bgs; no groundwater or moisture was observed.

On November 24, 2020, soil boring C-04483 POD 1, was drilled to a total depth of 110 feet bgs 0.86 miles northwest of the Site; no groundwater or moisture was observed. Due to a typo, the well log was originally submitted with an incorrect longitude. The corrected well log was resubmitted to the OSE on April 26, 2023, to correspond to the actual well location and the permitted Global Positioning Coordinates (GPS). On August 7, 2023, soil boring C-04759 POD 1, was drilled to a total depth of 110 feet bgs 0.92 miles northeast of the Site; no groundwater or moisture was observed. All referenced well records and logs are attached in Appendix A and depicted on Figure 1.

The closest significant watercourse is a seasonal dry wash located 9,354 feet to the northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). All potential Site receptors are identified on Figure 1.

The regional groundwater data was submitted to the NMOCD as a *Variance Request* on December 9, 2025, and approved on December 11, 2025, requesting that the NMOCD's preference that depth to groundwater data be obtained within a 0.5-mile radius of the Site and from within the last 25 years be waived and the following NMOCD Table I Closure Criteria (Site Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 100 mg/kg TPH and 600 mg/kg chloride applies in the top 4 feet of areas where the release impacted soils in the pasture area.

DELINEATION ACTIVITIES

On October 14, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected around the release extent from ground surface to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

On November 6, 2025, Ensolum personnel returned to the Site to collect additional delineation. One pothole (PH01) was advanced via backhoe to a terminal depth of 4 feet bgs along the eastern edge of the lease road. Discrete soil samples were collected from the pothole at depths ranging from 0.5 feet bgs to 4 feet bgs. The delineation soil samples were handled and field screened for the same VOCs as described above. Photographic documentation was collected, and a photographic log is included in Appendix B. Field screening results and observations from the pothole were logged on a lithologic/soil sampling log, which is included in Appendix C.

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

Laboratory analytical results from delineation soil sample SS01 through SS07, collected outside the release extent at ground surface, indicated all COC concentrations were in compliance with Site Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results for delineation pothole PH01 indicated all COC concentrations were in compliance with Site Closure Criteria, successfully confirming the absence of impacts to soil in the adjacent pasture area. Based on visible staining in the release area and previous delineation soil sample laboratory analytical results, obtained by a document search of the RP number, excavation of impacted soil along the lease road appeared warranted.

CONFIRMATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

Between November 3, 2025, and February 4, 2026, Ensolum personnel were at the Site to oversee excavation activities and conduct confirmation soil sampling. Excavation activities were performed using heavy equipment, hydro excavation, and transport vehicles. Excavation and sampling activities occurred on the lease road and adjacent pasture areas. To direct excavation activities, Ensolum personnel field screened the soil for VOCs in the same manner as described above. Following the removal of impacted soil, 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 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 CS01 and CS02 were collected from areas in the pasture. Confirmation soil samples FS01 and FS02 were collected from the floor of the excavation at a depth of 4 feet bgs. Confirmation soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The final excavation extent and confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation of the excavation activities is provided in Appendix B.

The confirmation soil samples were handled in the same manner as described above and were transported under strict chain-of-custody procedures to Cardinal or Eurofins for analysis of the same COCs listed previously.

The final excavation extent measured approximately 282 square feet. A total of approximately 42 cubic yards of impacted soil was removed during the excavation activities. The impacted soil is in the process of being properly disposed of at the R360 Halfway Disposal in Hobbs, New Mexico. Copies of all disposal manifests will be made available upon request. The final excavation was partially backfilled to allow for access to the lease road with material purchased locally, and will be backfilled in its entirety, recontoured to match pre-existing Site conditions and reseeded with the appropriate BLM seed mixture.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final excavation confirmation floor and sidewall soil samples indicated all COC concentrations were compliant with the Closure Criteria and reclamation standards. The laboratory analytical results are summarized on the attached Table 1, and the complete laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Excavation activities were conducted at the Site to address the August 2019 release of crude oil. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated COC concentrations were compliant with the Closure Criteria and reclamation requirements. The release is defined laterally by confirmation sidewall soil samples SW01 and SW02, and delineation soil samples SS01 through SS07. The release is defined vertically in the pasture area by confirmation soil samples CS01 and CS02, and delineation soil sample PH01 collect at depths ranging from 0.5 feet bgs to 4 feet bgs. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions and reseeded with the appropriate BLM seed mixture.

Excavation of soil has mitigated impacts to soil that exceeded Closure Criteria and reclamation requirements at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number NAPP2524648926.

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

Sincerely,
Ensolum, LLC

Jeremy Reich
Project Geologist

Tacoma Morrissey, M.S., P.G.
Associate Principal

cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

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

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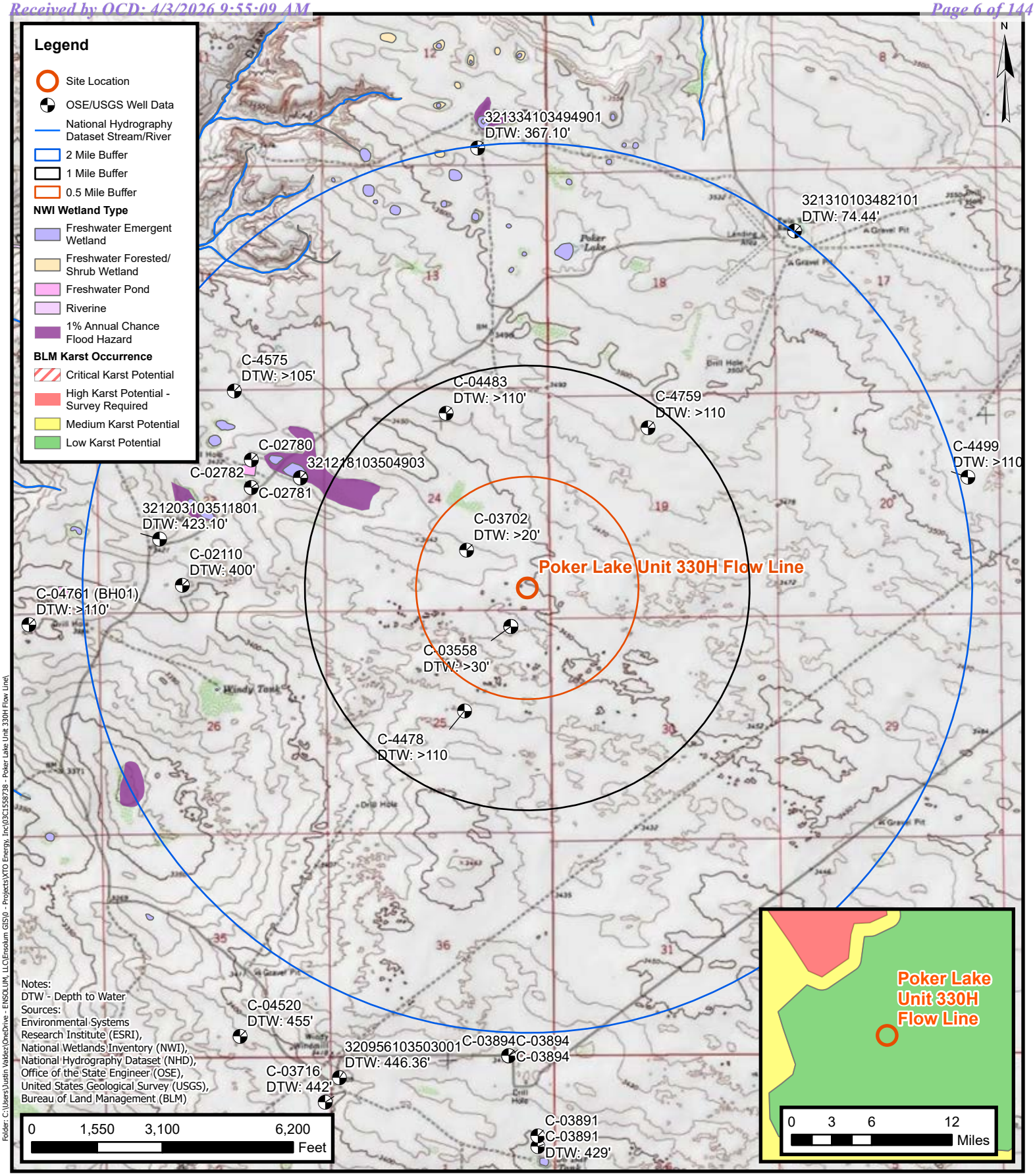
FIGURES



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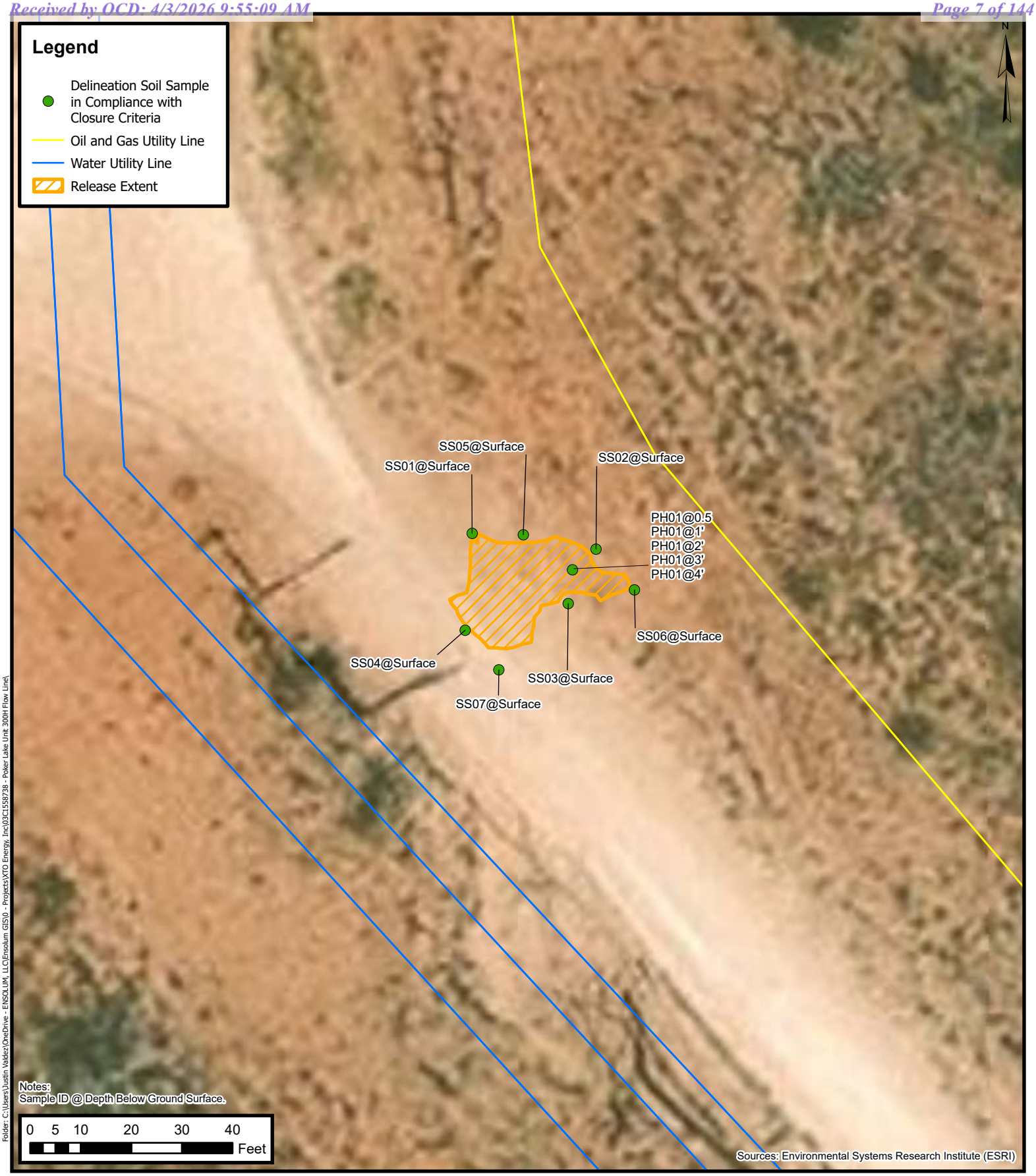
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
Incident Number: nAB1926638462
Unit P, Section 24, T 24S, R 30E
Eddy County, New Mexico

FIGURE 1



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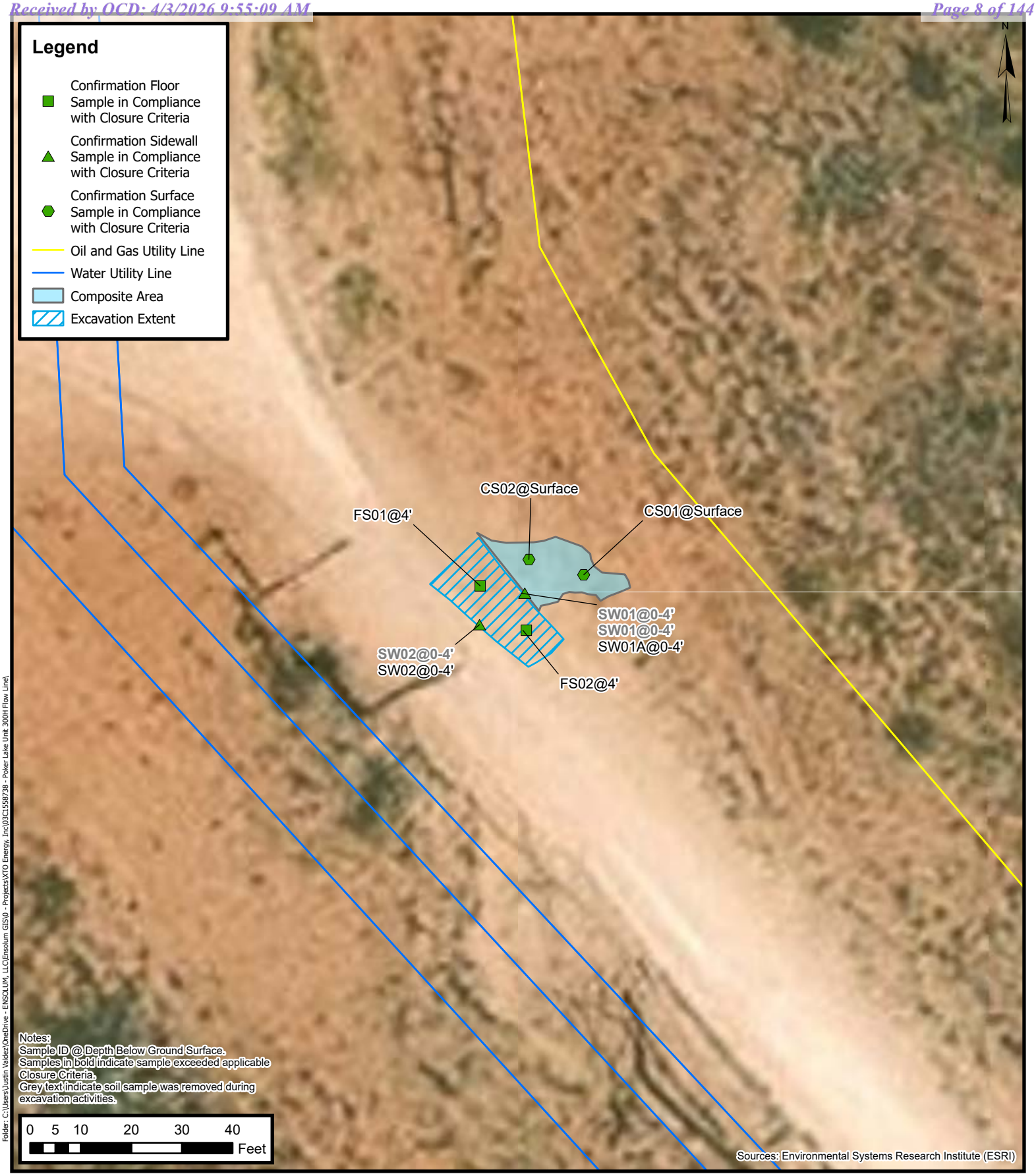
Delineation Soil Sample Locations

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
Incident Number: NAB1926638462
Unit P, Section 24, T 24S, R 30E
Eddy County, New Mexico

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

Confirmation Soil Sample Locations

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
Incident Number: NAB1926638462
Unit P, Section 24, T 24S, R 30E
Eddy County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 330H FLowline
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS02	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS04	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS05	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS06	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	10/14/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
PH01	11/06/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	36.4
PH01A	11/06/2025	1	<0.00199	0.0213	<50.0	<50.0	<50.0	<50.0	<50.0	75.4
PH01B	11/06/2025	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	65.0
PH01C	11/06/2025	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	57.6
PH01D	11/06/2025	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	115
Confirmation Soil Samples										
CS01	11/03/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS02	11/04/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
~~SW01~~	~~11/07/2025~~	~~0-4~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**1,430**~~
~~SW01~~	~~01/13/2026~~	~~0-4~~	~~<0.00202~~	~~<0.00403~~	~~<50.0~~	~~**149**~~	~~**108**~~	~~**149**~~	~~**257**~~	~~250~~
SW01A	2/4/2026	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
~~SW02~~	~~11/07/2025~~	~~0-4~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~147~~	~~<50.0~~	~~147~~	~~**147**~~	~~**1,630**~~
SW02	01/14/2026	0-4	<0.00199	<0.00398	<49.8	<49.8	68.3	68.3	68.3	352
FS01	11/07/2025	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	814
FS02	11/07/2025	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,370

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2012 AUG 13 P 1:14

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): POKER LAKE UNIT #78 SWD SB-5 (POD-5)	OSE FILE NUMBER(S): C-03558
WELL OWNER NAME(S): BOPCO OPERATING CO	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 6 DESTA DRIVE SUITE 3700, P.O. BOX 2760	CITY: MIDLAND STATE: TX ZIP: 79702

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	11	42.00	N
LONGITUDE	103	49	43.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: FROM HWY 128 AND TWIN WELLS RD GO S FOR 5.5 MI TURN R ON CALICHE RD GO TURN L FOLLOW TO SITE.

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE) SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼ 25	24 ☐ NORTH ☑ SOUTH	30 ☑ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT
			A

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	MARTIN STRAUB	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-1-12	8-1-12	0	30'	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
0	30'	5"	N/A	N/A	N/A	N/A	N/A

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

TOTAL ESTIMATED WELL YIELD (GPM):

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	C-3558	POD NUMBER	5	TRN NUMBER	507103
LOCATION	Expl-Boreholes	24S.30E.25.221			PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	0	2'	5"	. 5 BAGS OF CEMENT		TOPLOAD
	2'	30'	5"	7 BAGS OF 3/8 HOLE PLUG		TOPLOAD

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	6"	2'	TAN FINE SAND	☐ YES ☑ NO
6"	6'	5	RED FINE SAND	☐ YES ☑ NO
6'	13'	7'	TAN FINE SAND - (CEMENT) GYPSUM SANDSTONE	☐ YES ☑ NO
13'	30'	17'	TAN FINE SAND - (CEMENT) SANDSTONE	☐ YES ☑ NO
TD	30'			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING
EDDY COUNTY NM
EDWARD BRYAN (DRILLING SUPERVISOR)

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Martin Stah. — SIGNATURE OF DRILLER

8-10-12 — DATE

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	C-3558	POD NUMBER	5	TRN NUMBER	507103
LOCATION				PAGE 2 OF 2	

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2013 DEC 23 P 1:35

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): (POD1) POKER LAKE UNIT #139 SB-1	OSE FILE NUMBER(S): C-3702
WELL OWNER NAME(S): BOPCO, L.P.	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 522 W. MERMOD, SUITE 704	CITY: CARLSBAD STATE: NM ZIP: 88220

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	12	05	N
LONGITUDE	103	49	55	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE:
FROM TWRD GO S TO LAST PUMPJACK TURN R GO W TURN R PROCEED N TO SITE. UNIT J SEC 24, T24S,R30E,

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-11-13	12-11-13	0	20'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES - SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER - SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	5"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	5"	.5 OF CONCRETE		TOPLOAD
2'	20'	5"	6 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3702	POD NUMBER	1	TRN NUMBER	536936
LOCATION	MON	24S.30E.24.414			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	3'	3'	BACKFILL	○ Y ◉ N	N/A
3'	5	2'	RED FINE SAND	○ Y ◉ N	N/A
5'	7'	2'	TAN FINE SAND - CEMENTED SANDSTONE - CALICHE	○ Y ◉ N	N/A
7'	11'	4'	TAN FINE CEMENTED SANDSTONE	○ Y ◉ N	N/A
11'	20'	9'	TAN VERY FINE SAND - SOFT SANDSTONE	○ Y ◉ N	N/A
TD	20'			○ 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: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

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:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
EDDY COUNTY, NM.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edwardo Reyes — 12-18-13

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FOR OSE INTERNAL USE | POD NUMBER | TRN NUMBER | PAGE 2 OF 2

FILE NUMBER

LOCATION

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2020 OCT 22 PM 1:03

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4478

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32°	11'	22.57"	N
LONGITUDE	-103°	49'	56.14"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW SE NE Sec. 25 T24S R30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/07/2020	10/07/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±8.5	Boring- HSA	–	--	–	–

3. ANNULAR MATERIAL

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4478	POD NO. 1	TRN NO. 678382	
LOCATION 24S.30E.25 2.3.3		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	3	3	Sand, fine-grained, poorly-graded , Red-Brown	Y ✓ N	
3	5	2	Gravel, 20-30 mil, well graded, little clay	Y ✓ N	
5	13	8	Caliche with some gravel (5-20 mil.) Tan/ Brown	Y ✓ N	
13	24	9	Sand, fine-grained, well-graded some silt, Tan/ Red	Y ✓ N	
24	34	10	Sand, Medium-grained, well-graded some silt, Tan/ Red	Y ✓ N	
34	44	10	Sand, Large-grained, well-graded some silt, Dark Brown	Y ✓ N	
44	110	66	Sand, fine-grained, well-graded, some clay, moist, caliche fragments Red/Brown	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:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 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: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 10/26/2020

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4478	POD NO. 1	TRN NO. 678382	
LOCATION 24S-30E-25 2-3-3		WELL TAG ID NO. NA	PAGE 2 OF 2

2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign

Final Audit Report 2020-10-27

Created:	2020-10-27
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAESGKFRG9AU3NcytvOCSRntC1Y-zTs43Y

"2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-27 - 3:14:03 PM GMT- IP address: 69.21.248.123

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Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-27 - 3:22:09 PM GMT - Time Source: server- IP address: 74.50.153.115

Agreement completed.
2020-10-27 - 3:22:09 PM GMT

Adobe Sign

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

4/26/2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Resubmitted Well Record C-4483 Pod1

To whom it may concern:

Attached please find a corrected well record and a plugging record, in duplicate, for a one (1) soil borings, C-4483 Pod1. The Longitude was corrected for both records.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4483

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	12'	31.77"	N
	LONGITUDE	~~104°~~ 103	50'	0.72"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NW NW NE Sec. 24 T24S R30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
11/24/2020	11/24/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±8.5	Boring- HSA	–	–	–	–

3. ANNULAR MATERIAL

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

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	24	24	Sand, Fine-grained,poorly-graded, with caliche, Tan-Off-White	Y ✓ N	
24	34	10	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Tan-Off-White	Y ✓ N	
34	51	17	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown	Y ✓ N	
51	54	3	Sand, Fine-grained,poorly-graded, silty, with caliche gravel, Light Brown-Brown	Y ✓ N	
54	76	22	Sand, Fine-grained,poorly-graded, Brown, dry	Y ✓ N	
76	101	25	Sand, Fine-grained,poorly-graded, Light-Brown, dry	Y ✓ N	
101	110	9	Sand, Fine-grained,poorly-graded, with gravel, Light-Brown, dry-moist	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:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 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: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 12/14/20

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4483-POD1

Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Elridge

4) Date well plugging began: 11/30/2020 Date well plugging concluded: 11/30/2020

5) GPS Well Location: Latitude: 32 deg, 12 min, 31.77 sec
Longitude: ~~-104~~ 103 deg, 50 min, 0.72 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 09/29/2020

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 26 gallons	26 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 163 gallons	163 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

12/14/2020

Date

Version: September 8, 2009
Page 2 of 2

2020-12-15_C-4483_POD1_OSE_Well Record and Log_plu13-forsign

Final Audit Report 2020-12-15

Created:	2020-12-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAARxff6o4VHy1EHZsp0Yo_uFsm-rYe4wj2

"2020-12-15_C-4483_POD1_OSE_Well Record and Log_plu13-forsign" History

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Signature Date: 2020-12-15 - 8:29:23 PM GMT - Time Source: server- IP address: 74.50.153.115

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OSE DII APR 27 2023 PM1:42

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) Pod 1(BH01)	WELL TAG ID NO. n/a	OSE FILE NO(S). C-4759
WELL OWNER NAME(S) XTO Energy, Inc.		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS 3401 Greene Street		CITY Carlsbad / STATE NM / ZIP 88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	12	28.26	N
	LONGITUDE	-103	49	2.70	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
Unit C, Section 19, Township 24 South, Range 31 East

2. DRILLING & CASING INFORMATION

LICENSE NO. WD-1188	NAME OF LICENSED DRILLER Scott Scarborough		NAME OF WELL DRILLING COMPANY Scarborough Drilling Inc.
DRILLING STARTED 8/7/2023	DRILLING ENDED 8/7/2023	DEPTH OF COMPLETED WELL (FT) Temp casing only	BORE HOLE DEPTH (FT) 110 / DEPTH WATER FIRST ENCOUNTERED (FT) N/A
COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A
DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:			
DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:			

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	6	Temporary SCH 40 PVC	-	2	-	-

3. ANNULAR MATERIAL

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

OSE DII ROSWELL NM
2 APR 25 PM3:08

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4759	POD NO. 1	TRN NO. 749156	
LOCATION 24S.31E.19 421		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	10	10	Red-Brown Sand	Y ✓N	
10	40	30	Tan Caliche	Y ✓N	
40	100	60	Tan Sand	Y ✓N	
100	110	10	Red-Orange Clayey 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	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 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: Temporary casing removed and soil bore was backfilled using drill cuttings to a depth of 10 feet below ground surface, remaining 10 feet backfilled using hydrated bentonite chips.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

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.

OSE D2 ROSWELL NM
2 APR '25 PM 3:03

Lane Scarborough — Lane Scarborough — 2/25/2025

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/ 30/ 2019)

FILE NO. C-4759	POD NO. 1	TRN NO. 749156	
LOCATION 24S.31E.19 421		WELL TAG ID NO. N/A	PAGE 2 OF 2

ENSOLUM

APPENDIX B

Photographic Log

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 1	Date 10/14/2025	
Description Delineation activities near SS04		
View Southwest		
Photograph 2	Date 11/03/2025	
Description Hydro excavation activities on road		
View Southeast		

ENSOLUM

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 3	Date 11/3/2025	
Description: Excavation and sampling activities near composite sampling area in pasture		
View: East		
Photograph 4	Date 11/04/2025	
Description: Hydro excavation activities on road and adjacent to pasture confirmation soil sampling		
View: Northwest		

ENSOLUM

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 5	Date 11/05/2025	
Description Excavation activities near FS02		
View Northeast		
Photograph 6	Date 11/05/2025	
Description Excavation activities near FS01, FS02, SW01, and SW02		
View South		

ENSOLUM

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 7	Date 11/06/2025	
Description Excavation and sampling activities near FS01, FS02, SW01, and SW02		
View Southwest		
Photograph 8	Date 11/06/2025	
Description Excavation and sampling activities near FS01, FS02, SW01, and SW02		
View Southeast		

ENSOLUM

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 9	Date 01/14/2026	
Description: Backfilling activities on road, additional excavation near SW02		
View: South		
Photograph 10	Date 01/14/2026	
Description: Backfilling activities on road, additional excavation near SW01 and SW02		
View: Southwest		

ENSOLUM

Photographic Log

XTO Energy, Inc
Poker Lake Unit 330H Flow Line
NAB1926638462

Photograph 11	Date 02/04/2026	
Description Additional excavation activities near SW01		
View North		
Photograph 12	Date 02/04/2026	
Description Additional excavation near SW01		
View Northwest		

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: PH01	Date: 10/14/25
	Site Name: Poker Lake Unit 330H Flow Line	
	Incident Number: NAB1926638462	
	Job Number: 03C1558738	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Evan Roe	Method: Hand Auger
Coordinates: 32.197478, -103.827306	Hole Diameter: 3.5 inch	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SM	(0-1') SAND AND CALICHE. Brown and grey. Uniform mixing, with stones. No odor or staining.
Dry	3164	1	N	PH01	0.5			
Dry	2940	0.9	N	PH01	1	1	SM	(1-4') SAND. Brown. Uniform. No odor or staining.
Dry	1148	0.3	N	PH01	2	2		
Dry	1204	0.2	N	PH01	3	3		
Dry	1932	0.1	N	PH01	4	4		

Final Depth @ 4 Feet

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

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

October 20, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 330H FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 10/16/25 12:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS01 SURFACE (H256527-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *95.2 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *91.3 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS02 SURFACE (H256527-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *91.9 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *87.3 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS04 SURFACE (H256527-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *89.4 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *84.2 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS05 SURFACE (H256527-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *91.9 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *87.5 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS06 SURFACE (H256527-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *90.7 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *87.1 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/16/2025	Sampling Date:	10/14/2025
Reported:	10/20/2025	Sampling Type:	Soil
Project Name:	PLU 330H FLOW LINE	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SS07 SURFACE (H256527-06)

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	10/17/2025	ND	2.05	103	2.00	2.37	
Toluene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.86	
Ethylbenzene*	<0.050	0.050	10/17/2025	ND	2.06	103	2.00	2.66	
Total Xylenes*	<0.150	0.150	10/17/2025	ND	6.11	102	6.00	2.38	
Total BTEX	<0.300	0.300	10/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	10/17/2025	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	10/17/2025	ND	211	105	200	0.266	
DRO >C10-C28*	<10.0	10.0	10/17/2025	ND	214	107	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	10/17/2025	ND					

Surrogate: 1-Chlorooctane *90.7 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *86.5 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	Ensolum, LLC
Project Manager:	Jeremy Reich
Address:	601 N Marienfeld Street, Suite 400
City:	Midland State: TX Zip: 79701
Phone #:	432-296-0627 Fax #:
Project #:	03C1558738 Project Owner: XTO
Project Name:	PLU 330H Flow Line -SPILLS
Project Location:	32.197505,-103.827318
Sampler Name:	Evan Roe

BILL TO

P.O. #:	
Company:	XTO Energy, Inc
Attn:	Colton Brown
Address:	3104 E Greene St
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
H256527																		
1	SS 01	Surface	G	1			✓					✓		10/14/2025	1010	✓	✓	✓
2	SS 02	Surface	G	1			✓					✓		10/14/2025	1105	✓	✓	✓
3	SS 04	Surface	G	1			✓					✓		10/14/2025	1050	✓	✓	✓
4	SS 05	Surface	G	1			✓					✓		10/14/2025	1418	✓	✓	✓
5	SS 06	Surface	G	1			✓					✓		10/14/2025	1420	✓	✓	✓
6	SS 07	Surface	G	1			✓					✓		10/14/2025	1507	✓	✓	✓

CS-0409301J

Relinquished By:	Date: 10.16.25	Received By:	
Relinquished By:	Time: 1310	Received By:	
	Date:		
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address: jreich@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com

REMARKS:
Incident Number: NAB1926638462
Cost Center: 1139561001
GCFM: 48605000

Delivered By: (Circle One)	Observed Temp. °C 3.6	Sample Condition Cool ☑ Yes Intact ☑ Yes	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.9	☐ No ☐ No	

FORM-006 R 3.6 02/12/25

Turnaround Time: Standard ☐ Rush ✓ 48hr

Thermometer ID #140
Correction Factor +0.3°C

Bacteria (only) Sample Condition
Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

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

CARDINAL Laboratories

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

November 06, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: POKER LAKE UNIT 330H FLOW LINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 11/04/25 12:45.

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 accreditated 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	11/04/2025	Sampling Date:	11/03/2025
Reported:	11/06/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 330H FLOW LINE - S	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.197505, -103.827318		

Sample ID: CS01 SURFACE (H256940-01)

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	11/05/2025	ND	1.70	84.9	2.00	5.61	
Toluene*	<0.050	0.050	11/05/2025	ND	1.75	87.4	2.00	7.96	
Ethylbenzene*	<0.050	0.050	11/05/2025	ND	1.75	87.5	2.00	9.22	
Total Xylenes*	<0.150	0.150	11/05/2025	ND	5.60	93.3	6.00	9.19	
Total BTEX	<0.300	0.300	11/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/05/2025	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2025	ND	189	94.3	200	1.27	
DRO >C10-C28*	<10.0	10.0	11/04/2025	ND	181	90.7	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	11/04/2025	ND					

Surrogate: 1-Chlorooctane *89.9 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *92.9 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	Jeremy Reich
Address:	601 N Marienfeld Street, Suite 400
City:	Midland State: TX Zip: 79701
Phone #:	432-296-0627 Fax #:
Project #:	03C1558738 Project Owner: XTO
Project Name:	Poker Lake Unit 330H Flow Line -SPILLS
Project Location:	32.197505,-103.827318
Sampler Name:	Evan Roe

BILL TO

P.O. #:	
Company:	XTO Energy, Inc
Attn:	Robert Woodall
Address:	3104 E Greene St
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
H256940-1	CS 01	Surface	✓	✓			✓					✓		11/3/2025	1053	✓	✓	✓

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

NO Labels

Relinquished By:	Date: 11-4-25 Time: 1245	Received By:	
Relinquished By:	Date: Time:	Received By:	

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: jreich@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com
REMARKS:
Incident Number: NAB1926638462
Cost Center: 1139561001
GCFM: 48605000

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
FORM-006 R 3.6 02/12/25

Observed Temp. °C 3.1
Corrected Temp. °C 3.4

Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO

Turnaround Time: Standard ☐ Rush ☑ 48hr
Thermometer ID #140
Correction Factor +0.3°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

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

CARDINAL Laboratories

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

November 12, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: POKER LAKE UNIT 330H FLOW LINE - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 11/10/25 12:00.

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

Cardinal Laboratories is accreditated 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	11/10/2025	Sampling Date:	11/04/2025
Reported:	11/12/2025	Sampling Type:	Soil
Project Name:	POKER LAKE UNIT 330H FLOW LINE - S	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.197505, -103.827318		

Sample ID: CS 02 SURFACE (H257063-01)

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	11/11/2025	ND	2.19	110	2.00	1.84	
Toluene*	<0.050	0.050	11/11/2025	ND	2.23	111	2.00	1.08	
Ethylbenzene*	<0.050	0.050	11/11/2025	ND	2.27	114	2.00	2.12	
Total Xylenes*	<0.150	0.150	11/11/2025	ND	7.06	118	6.00	1.35	
Total BTEX	<0.300	0.300	11/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	11/11/2025	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	11/11/2025	ND	206	103	200	2.81	
DRO >C10-C28*	<10.0	10.0	11/11/2025	ND	204	102	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	11/11/2025	ND					

Surrogate: 1-Chlorooctane *91.2 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *86.1 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories
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:	Jeremy Reich
Address:	601 N Marienfeld Street, Suite 400
City:	Midland State: TX Zip: 79701
Phone #:	432-296-0627 Fax #:
Project #:	03C1558738 Project Owner: XTO
Project Name:	Poker Lake Unit 330H Flow Line -SPILLS
Project Location:	32.197505,-103.827318
Sampler Name:	Evan Roe

BILL TO

P.O. #:	
Company:	XTO Energy, Inc
Attn:	Robert Woodall
Address:	3104 E Greene St
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
H257063-1	CS 02	Surface	✓	✓			✓					✓		11/4/2025	1330	✓	✓	✓

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

NO Labels

Relinquished By:	Date: 11-10-25	Received By:	
	Time: 1200		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: jreich@ensolum.com
THillard@ensolum.com, KThomason@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com

REMARKS:
Incident Number: NAB1926638462
Cost Center: 1139561001
GCFM: 48605000

Turnaround Time: Standard ☐ Rush ☑ 48hr

Thermometer ID #140
Correction Factor +0.3°C

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition Cool	Intact	CHECKED BY: (Initials)	Bacteria (only) Sample Condition Cool	Intact	Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.4 4.7	☐ Yes ☐ No	☑ Yes ☐ No		☐ Yes ☐ No	☐ Yes ☐ No	Corrected Temp. °C

FORM-006 R 3.6 02/12/25

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

CARDINAL Laboratories

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

February 06, 2026

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 330 H

Enclosed are the results of analyses for samples received by the laboratory on 02/04/26 14:43.

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

Cardinal Laboratories is accreditated 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	02/04/2026	Sampling Date:	02/04/2026
Reported:	02/06/2026	Sampling Type:	Soil
Project Name:	PLU 330 H	Sampling Condition:	Cool & Intact
Project Number:	03C1558738	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.197505, -103.827318		

Sample ID: SW 01 A 0-4 (H260634-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2026	ND	2.01	101	2.00	1.93	
Toluene*	<0.050	0.050	02/05/2026	ND	1.86	93.2	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/05/2026	ND	1.85	92.4	2.00	1.52	
Total Xylenes*	<0.150	0.150	02/05/2026	ND	5.47	91.1	6.00	1.84	
Total BTEX	<0.300	0.300	02/05/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.0 %* *70.4-141*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	02/05/2026	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: JF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2026	ND	205	102	200	5.82	
DRO >C10-C28*	<10.0	10.0	02/05/2026	ND	185	92.4	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	02/05/2026	ND					

Surrogate: 1-Chlorooctane *103 %* *52.4-130*

Surrogate: 1-Chlorooctadecane *107 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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: Jeremy Reich
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 432-246-0627 Fax #:
Project #: 03C1558738 Project Owner:
Project Name: PLU 330 H
Project Location: 32.147505, -103.827318
Sampler Name: Mario Sarkis

BILL TO
P.O. #:
Company: XTO
Attn: Dale Woodall
Address: 3104 E. Green St.
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

ANALYSIS REQUEST

Lab I.D. (FOR LAB USE ONLY)	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	BTEX	TPH	Chlorides
H260634 1	SW01A	0-4	C	1			✓					✓		2/4/26	1240	✓	✓	✓

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CIS 01102340K

Relinquished By: [signature]	Date: 2/4/26 Time: 1443	Received By: [signature]	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Msarkis@ensolum.com jreich@ensolum.com/kthompson@ensolum.com REMARKS: Incident: nAPI926638462/CC: 1139561001 Facility: FAPI926638462/GFCM: 48605000
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.6 Corrected Temp. °C 3.7	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) AP

Turnaround Time: 48-hr Standard ☐ Rush ☑
Thermometer ID #113 #140 Correction Factor -0.5°C +0.1
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 11/10/2025 4:33:21 PM

JOB DESCRIPTION

PLU 330H
03C1558738

JOB NUMBER

890-9038-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

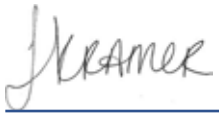
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
11/10/2025 4:33:21 PM

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

Client: Ensolum
Project/Site: PLU 330H

Laboratory Job ID: 890-9038-1
SDG: 03C1558738

Table of Contents

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: PLU 330H

Job ID: 890-9038-1

Job ID: 890-9038-1 Eurofins Carlsbad

Job Narrative
890-9038-1

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

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

Receipt
The samples were received on 11/6/2025 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: PH 01 (890-9038-1), PH 01A (890-9038-2), PH 01B (890-9038-3), PH 01C (890-9038-4) and PH 01D (890-9038-5).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-123394 and analytical batch 880-123432 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH 01 (890-9038-1) and PH 01A (890-9038-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-123394 and analytical batch 880-123432 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01

Date Collected: 11/06/25 13:35
Date Received: 11/06/25 16:21
Sample Depth: 0.5

Lab Sample ID: 890-9038-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 04:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 04:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 04:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/08/25 11:09	11/10/25 04:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 04:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/08/25 11:09	11/10/25 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*11/08/25 11:09*	*11/10/25 04:19*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/08/25 11:09*	*11/10/25 04:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/10/25 04:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/25 13:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 13:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/06/25 17:01*	*11/07/25 13:52*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/06/25 17:01*	*11/07/25 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.4**		10.1		mg/Kg			11/08/25 22:56	1

Client Sample ID: PH 01A

Date Collected: 11/06/25 13:37
Date Received: 11/06/25 16:21
Sample Depth: 1

Lab Sample ID: 890-9038-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/08/25 11:09	11/10/25 04:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/08/25 11:09	11/10/25 04:39	1
Ethylbenzene	**0.00726**		0.00199		mg/Kg		11/08/25 11:09	11/10/25 04:39	1
m-Xylene & p-Xylene	**0.00930**		0.00398		mg/Kg		11/08/25 11:09	11/10/25 04:39	1
o-Xylene	**0.00470**		0.00199		mg/Kg		11/08/25 11:09	11/10/25 04:39	1
Xylenes, Total	**0.0140**		0.00398		mg/Kg		11/08/25 11:09	11/10/25 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*313*	*S1+*	*70 - 130*	*11/08/25 11:09*	*11/10/25 04:39*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01A

Date Collected: 11/06/25 13:37
Date Received: 11/06/25 16:21
Sample Depth: 1

Lab Sample ID: 890-9038-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*11/08/25 11:09*	*11/10/25 04:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0213**		0.00398	mg/Kg			11/10/25 04:39	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			11/07/25 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/06/25 17:01	11/07/25 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/06/25 17:01	11/07/25 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/06/25 17:01	11/07/25 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:20*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.4**		9.94	mg/Kg			11/08/25 23:01	1

Client Sample ID: PH 01B

Date Collected: 11/06/25 13:39
Date Received: 11/06/25 16:21
Sample Depth: 2

Lab Sample ID: 890-9038-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/08/25 11:09	11/10/25 04:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/08/25 11:09	11/10/25 04:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/08/25 11:09	11/10/25 04:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/08/25 11:09	11/10/25 04:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/08/25 11:09	11/10/25 04:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/08/25 11:09	11/10/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/08/25 11:09*	*11/10/25 04:59*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/08/25 11:09*	*11/10/25 04:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/10/25 04:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/07/25 14:34	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01B

Date Collected: 11/06/25 13:39
Date Received: 11/06/25 16:21
Sample Depth: 2

Lab Sample ID: 890-9038-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/06/25 17:01	11/07/25 14:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/06/25 17:01	11/07/25 14:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/06/25 17:01	11/07/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:34*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.0**		10.0		mg/Kg			11/08/25 23:17	1

Client Sample ID: PH 01C

Date Collected: 11/06/25 13:43
Date Received: 11/06/25 16:21
Sample Depth: 3

Lab Sample ID: 890-9038-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/10/25 05:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/10/25 05:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/10/25 05:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/08/25 11:09	11/10/25 05:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/10/25 05:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/08/25 11:09	11/10/25 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*11/08/25 11:09*	*11/10/25 05:20*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/08/25 11:09*	*11/10/25 05:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/10/25 05:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/07/25 14:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 14:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 14:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/06/25 17:01	11/07/25 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:48*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/06/25 17:01*	*11/07/25 14:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01C

Lab Sample ID: 890-9038-4
Matrix: Solid
Date Collected: 11/06/25 13:43
Date Received: 11/06/25 16:21
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.6		9.94		mg/Kg			11/08/25 23:22	1

Client Sample ID: PH 01D

Lab Sample ID: 890-9038-5
Matrix: Solid
Date Collected: 11/06/25 13:47
Date Received: 11/06/25 16:21
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 05:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 05:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 05:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/08/25 11:09	11/10/25 05:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/08/25 11:09	11/10/25 05:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/08/25 11:09	11/10/25 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/08/25 11:09*	*11/10/25 05:40*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/08/25 11:09*	*11/10/25 05:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/10/25 05:40	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			11/07/25 15:03	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		11/06/25 17:01	11/07/25 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/06/25 17:01	11/07/25 15:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/06/25 17:01	11/07/25 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/06/25 17:01*	*11/07/25 15:03*	*1*
o-Terphenyl	*103*		*70 - 130*	*11/06/25 17:01*	*11/07/25 15:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		9.96		mg/Kg			11/08/25 23:38	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid | **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-9038-1	PH 01	136 S1+	114
890-9038-2	PH 01A	313 S1+	81
890-9038-3	PH 01B	124	108
890-9038-4	PH 01C	130	110
890-9038-5	PH 01D	125	110
890-9043-A-1-B MS	Matrix Spike	104	100
890-9043-A-1-C MSD	Matrix Spike Duplicate	104	103
LCS 880-123394/1-A	Lab Control Sample	98	95
LCSD 880-123394/2-A	Lab Control Sample Dup	106	102
MB 880-123394/5-A	Method Blank	186 S1+	99

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-9037-A-1-B MS	Matrix Spike	114	118
890-9037-A-1-C MSD	Matrix Spike Duplicate	113	117
890-9038-1	PH 01	91	101
890-9038-2	PH 01A	91	102
890-9038-3	PH 01B	92	102
890-9038-4	PH 01C	90	99
890-9038-5	PH 01D	92	103
LCS 880-123218/2-A	Lab Control Sample	104	106
LCSD 880-123218/3-A	Lab Control Sample Dup	106	107
MB 880-123218/1-A	Method Blank	103	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-123394/5-A
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123394

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/09/25 21:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/09/25 21:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/09/25 21:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/08/25 11:09	11/09/25 21:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/08/25 11:09	11/09/25 21:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/08/25 11:09	11/09/25 21:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*11/08/25 11:09*	*11/09/25 21:13*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/08/25 11:09*	*11/09/25 21:13*	*1*

Lab Sample ID: LCS 880-123394/1-A
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123394

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09539		mg/Kg		95	70 - 130		
Toluene			0.100	0.09350		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2103		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-123394/2-A
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 123394

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1077		mg/Kg		108	70 - 130	12	35
Toluene			0.100	0.09445		mg/Kg		94	70 - 130	1	35
Ethylbenzene			0.100	0.1107		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2200		mg/Kg		110	70 - 130	5	35
o-Xylene			0.100	0.1114		mg/Kg		111	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-9043-A-1-B MS
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.100	0.09375	F1	mg/Kg		-22	70 - 130		
Toluene	<0.00200	U F1	0.100	0.08114	F1	mg/Kg		56	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

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

Lab Sample ID: 890-9043-A-1-B MS
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.09001	F1	mg/Kg		-41	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1740	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.09472	F1	mg/Kg		-150	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-9043-A-1-C MSD
Matrix: Solid
Analysis Batch: 123432

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 123394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.09418	F1	mg/Kg		-21	70 - 130	0	35
Toluene	<0.00200	U F1	0.100	0.08331	F1	mg/Kg		58	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.100	0.09815	F1	mg/Kg		-33	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.2019	F1	mg/Kg		61	70 - 130	15	35
o-Xylene	<0.00200	U F1	0.100	0.1014	F1	mg/Kg		-144	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-123218/1-A
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123218

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/06/25 17:01	11/07/25 09:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/06/25 17:01	11/07/25 09:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/06/25 17:01	11/07/25 09:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/06/25 17:01*	*11/07/25 09:09*	*1*
o-Terphenyl	*118*		*70 - 130*	*11/06/25 17:01*	*11/07/25 09:09*	*1*

Lab Sample ID: LCS 880-123218/2-A
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123218

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1194		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1159		mg/Kg		116	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

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

Lab Sample ID: LCS 880-123218/2-A
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123218

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-123218/3-A
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 123218

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1208		mg/Kg		121	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1188		mg/Kg		119	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-9037-A-1-B MS
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	873.2		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	968.6		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-9037-A-1-C MSD
Matrix: Solid
Analysis Batch: 123328

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 123218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	884.8		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	994.7		mg/Kg		100	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-123234/1-A
Matrix: Solid
Analysis Batch: 123289

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			11/08/25 21:32	1

Lab Sample ID: LCS 880-123234/2-A
Matrix: Solid
Analysis Batch: 123289

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-123234/3-A
Matrix: Solid
Analysis Batch: 123289

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	243.9		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-9038-2 MS
Matrix: Solid
Analysis Batch: 123289

Client Sample ID: PH 01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	75.4		249	318.0		mg/Kg		98	90 - 110		

Lab Sample ID: 890-9038-2 MSD
Matrix: Solid
Analysis Batch: 123289

Client Sample ID: PH 01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.4		249	320.2		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

GC VOA

Prep Batch: 123394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	5035	
890-9038-2	PH 01A	Total/NA	Solid	5035	
890-9038-3	PH 01B	Total/NA	Solid	5035	
890-9038-4	PH 01C	Total/NA	Solid	5035	
890-9038-5	PH 01D	Total/NA	Solid	5035	
MB 880-123394/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-123394/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-123394/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9043-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-9043-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 123432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	8021B	123394
890-9038-2	PH 01A	Total/NA	Solid	8021B	123394
890-9038-3	PH 01B	Total/NA	Solid	8021B	123394
890-9038-4	PH 01C	Total/NA	Solid	8021B	123394
890-9038-5	PH 01D	Total/NA	Solid	8021B	123394
MB 880-123394/5-A	Method Blank	Total/NA	Solid	8021B	123394
LCS 880-123394/1-A	Lab Control Sample	Total/NA	Solid	8021B	123394
LCSD 880-123394/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	123394
890-9043-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	123394
890-9043-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	123394

Analysis Batch: 123530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	Total BTEX	
890-9038-2	PH 01A	Total/NA	Solid	Total BTEX	
890-9038-3	PH 01B	Total/NA	Solid	Total BTEX	
890-9038-4	PH 01C	Total/NA	Solid	Total BTEX	
890-9038-5	PH 01D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 123218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	8015NM Prep	
890-9038-2	PH 01A	Total/NA	Solid	8015NM Prep	
890-9038-3	PH 01B	Total/NA	Solid	8015NM Prep	
890-9038-4	PH 01C	Total/NA	Solid	8015NM Prep	
890-9038-5	PH 01D	Total/NA	Solid	8015NM Prep	
MB 880-123218/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-123218/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-123218/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9037-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9037-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 123328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	8015B NM	123218
890-9038-2	PH 01A	Total/NA	Solid	8015B NM	123218

QC Association Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

GC Semi VOA (Continued)

Analysis Batch: 123328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-3	PH 01B	Total/NA	Solid	8015B NM	123218
890-9038-4	PH 01C	Total/NA	Solid	8015B NM	123218
890-9038-5	PH 01D	Total/NA	Solid	8015B NM	123218
MB 880-123218/1-A	Method Blank	Total/NA	Solid	8015B NM	123218
LCS 880-123218/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	123218
LCSD 880-123218/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	123218
890-9037-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	123218
890-9037-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	123218

Analysis Batch: 123364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Total/NA	Solid	8015 NM	
890-9038-2	PH 01A	Total/NA	Solid	8015 NM	
890-9038-3	PH 01B	Total/NA	Solid	8015 NM	
890-9038-4	PH 01C	Total/NA	Solid	8015 NM	
890-9038-5	PH 01D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 123234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Soluble	Solid	DI Leach	
890-9038-2	PH 01A	Soluble	Solid	DI Leach	
890-9038-3	PH 01B	Soluble	Solid	DI Leach	
890-9038-4	PH 01C	Soluble	Solid	DI Leach	
890-9038-5	PH 01D	Soluble	Solid	DI Leach	
MB 880-123234/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-123234/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-123234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9038-2 MS	PH 01A	Soluble	Solid	DI Leach	
890-9038-2 MSD	PH 01A	Soluble	Solid	DI Leach	

Analysis Batch: 123289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9038-1	PH 01	Soluble	Solid	300.0	123234
890-9038-2	PH 01A	Soluble	Solid	300.0	123234
890-9038-3	PH 01B	Soluble	Solid	300.0	123234
890-9038-4	PH 01C	Soluble	Solid	300.0	123234
890-9038-5	PH 01D	Soluble	Solid	300.0	123234
MB 880-123234/1-A	Method Blank	Soluble	Solid	300.0	123234
LCS 880-123234/2-A	Lab Control Sample	Soluble	Solid	300.0	123234
LCSD 880-123234/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	123234
890-9038-2 MS	PH 01A	Soluble	Solid	300.0	123234
890-9038-2 MSD	PH 01A	Soluble	Solid	300.0	123234

Lab Chronicle

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01

Date Collected: 11/06/25 13:35
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	123394	11/08/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	123432	11/10/25 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			123530	11/10/25 04:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			123364	11/07/25 13:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	123218	11/06/25 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	123328	11/07/25 13:52	FC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	123234	11/07/25 08:07	SA	EET MID
Soluble	Analysis	300.0		1			123289	11/08/25 22:56	CS	EET MID

Client Sample ID: PH 01A

Date Collected: 11/06/25 13:37
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	123394	11/08/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	123432	11/10/25 04:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			123530	11/10/25 04:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			123364	11/07/25 14:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	123218	11/06/25 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	123328	11/07/25 14:20	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	123234	11/07/25 08:07	SA	EET MID
Soluble	Analysis	300.0		1			123289	11/08/25 23:01	CS	EET MID

Client Sample ID: PH 01B

Date Collected: 11/06/25 13:39
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	123394	11/08/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	123432	11/10/25 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			123530	11/10/25 04:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			123364	11/07/25 14:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	123218	11/06/25 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	123328	11/07/25 14:34	FC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	123234	11/07/25 08:07	SA	EET MID
Soluble	Analysis	300.0		1			123289	11/08/25 23:17	CS	EET MID

Client Sample ID: PH 01C

Date Collected: 11/06/25 13:43
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	123394	11/08/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	123432	11/10/25 05:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			123530	11/10/25 05:20	SA	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

Client Sample ID: PH 01C

Date Collected: 11/06/25 13:43
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			123364	11/07/25 14:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	123218	11/06/25 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	123328	11/07/25 14:48	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	123234	11/07/25 08:07	SA	EET MID
Soluble	Analysis	300.0		1			123289	11/08/25 23:22	CS	EET MID

Client Sample ID: PH 01D

Date Collected: 11/06/25 13:47
Date Received: 11/06/25 16:21

Lab Sample ID: 890-9038-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	123394	11/08/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	123432	11/10/25 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			123530	11/10/25 05:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			123364	11/07/25 15:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	123218	11/06/25 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	123328	11/07/25 15:03	FC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	123234	11/07/25 08:07	SA	EET MID
Soluble	Analysis	300.0		1			123289	11/08/25 23:38	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 330H

Job ID: 890-9038-1
SDG: 03C1558738

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9038-1
SDG: 03C1558738

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 330H

Job ID: 890-9038-1
SDG: 03C1558738

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9038-1	PH 01	Solid	11/06/25 13:35	11/06/25 16:21	0.5
890-9038-2	PH 01A	Solid	11/06/25 13:37	11/06/25 16:21	1
890-9038-3	PH 01B	Solid	11/06/25 13:39	11/06/25 16:21	2
890-9038-4	PH 01C	Solid	11/06/25 13:43	11/06/25 16:21	3
890-9038-5	PH 01D	Solid	11/06/25 13:47	11/06/25 16:21	4

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Jeremy Reich	Bill to: (if different)	Robert Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	432-296-0627 Email:	Kthomason; Tmorrissey; Thillard; Jreich; Bbelill @ensolum.com	

Work Order Comments

Program: UST/PST ☐RP ☐rownfields ☐RC ☐perfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 330H	Turn Around	
Project Number:	03C1558738	☐ Routine ☐ Rush	
Project Location:	32.197505,-103.827318	Due Date:	48hr
Sampler's Name:	Evan roe	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
~~Cooler Custody Seals:~~	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.4	
Total Containers:		Corrected Temperature:	4.2	

ANALYSIS REQUEST

890-9038 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
~~$NaHSO_4$: NABIS~~
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH	BTEX	Sample Comments
PH01	Soil	11/6/2025	1335	0.5	Grab	1	✓	✓	✓	Incident ID: NAB1926638462
PH01A	Soil	11/6/2025	1337	1	Grab	1	✓	✓	✓	CC: 1139561001
PH01B	Soil	11/6/2025	1339	2	Grab	1	✓	✓	✓	GFCM: 48605000
PH01C	Soil	11/6/2025	1343	3	Grab	1	✓	✓	✓	
PH01D	Soil	11/6/2025	1347	4	Grab	1	✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag ~~SiO_2~~ Na Sr Tl Sn U V Zn

~~Circle Method(s) and Metal(s) to be analyzed~~ **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Evan Roe		11/6 1621	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-6074.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-9038-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 11/10/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: PLU 330H	Project #: 89000110			Other: N/A
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH/Chloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH 01 (890-9038-1)	11/6/25	13:35 Mountain	G	Solid			X	X	X	X	X	1	
PH 01A (890-9038-2)	11/6/25	13:37 Mountain	G	Solid			X	X	X	X	X	1	
PH 01B (890-9038-3)	11/6/25	13:39 Mountain	G	Solid			X	X	X	X	X	1	
PH 01C (890-9038-4)	11/6/25	13:43 Mountain	G	Solid			X	X	X	X	X	1	
PH 01D (890-9038-5)	11/6/25	13:47 Mountain	G	Solid			X	X	X	X	X	1	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 11/6 16 30	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/7/25 0800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1/4.0 IR-8

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9038-1
SDG Number: 03C1558738

Login Number: 9038
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9038-1
SDG Number: 03C1558738

Login Number: 9038
List Number: 2
Creator: Lee, Randall

List Source: Eurofins Midland
List Creation: 11/07/25 07:30 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 11/17/2025 12:44:54 PM

JOB DESCRIPTION

PLU 330H
03C1558738

JOB NUMBER

890-9054-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated
11/17/2025 12:44:54 PM

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

Client: Ensolum
Project/Site: PLU 330H

Laboratory Job ID: 890-9054-1
SDG: 03C1558738

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

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
F1	MS and/or MSD recovery exceeds control limits.
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 330H

Job ID: 890-9054-1

Job ID: 890-9054-1 Eurofins Carlsbad

Job Narrative
890-9054-1

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

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

Receipt
The samples were received on 11/7/2025 4:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW 01 (890-9054-1), SW 02 (890-9054-2), FS 01 (890-9054-3) and FS 02 (890-9054-4).

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: SW 01 (890-9054-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-123611 and analytical batch 880-123814 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: SW 01

Date Collected: 11/07/25 08:30
Date Received: 11/07/25 16:42
Sample Depth: 0-4

Lab Sample ID: 890-9054-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/25 09:26	11/14/25 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/25 09:26	11/14/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/14/25 09:26*	*11/14/25 11:56*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/14/25 09:26*	*11/14/25 11:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/25 11:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/25 11:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*11/11/25 10:38*	*11/14/25 11:36*	*1*
o-Terphenyl	*182*	*S1+*	*70 - 130*	*11/11/25 10:38*	*11/14/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1430**		9.96		mg/Kg			11/13/25 02:48	1

Client Sample ID: SW 02

Date Collected: 11/07/25 14:40
Date Received: 11/07/25 16:42
Sample Depth: 0-4

Lab Sample ID: 890-9054-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/14/25 09:26	11/14/25 12:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/14/25 09:26	11/14/25 12:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/14/25 09:26	11/14/25 12:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/14/25 09:26	11/14/25 12:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/14/25 09:26	11/14/25 12:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/14/25 09:26	11/14/25 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:16*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: SW 02

Date Collected: 11/07/25 14:40
Date Received: 11/07/25 16:42
Sample Depth: 0-4

Lab Sample ID: 890-9054-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/25 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**147**		50.0	mg/Kg			11/14/25 11:51	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		11/11/25 10:38	11/14/25 11:51	1
Diesel Range Organics (Over C10-C28)	**147**		50.0	mg/Kg		11/11/25 10:38	11/14/25 11:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/25 10:38	11/14/25 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/11/25 10:38*	*11/14/25 11:51*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/11/25 10:38*	*11/14/25 11:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1630**	**F1**	50.1	mg/Kg			11/13/25 02:54	5

Client Sample ID: FS 01

Date Collected: 11/07/25 08:35
Date Received: 11/07/25 16:42
Sample Depth: 4

Lab Sample ID: 890-9054-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/14/25 09:26	11/14/25 12:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/25 09:26	11/14/25 12:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/25 09:26	11/14/25 12:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/25 09:26	11/14/25 12:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/25 09:26	11/14/25 12:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/25 09:26	11/14/25 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:37*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/25 12:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/14/25 12:06	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: FS 01

Lab Sample ID: 890-9054-3
Matrix: Solid
Date Collected: 11/07/25 08:35
Date Received: 11/07/25 16:42
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/11/25 10:38	11/14/25 12:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/25 10:38	11/14/25 12:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/25 10:38	11/14/25 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/11/25 10:38*	*11/14/25 12:06*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/11/25 10:38*	*11/14/25 12:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**814**		10.1		mg/Kg			11/13/25 03:12	1

Client Sample ID: FS 02

Lab Sample ID: 890-9054-4
Matrix: Solid
Date Collected: 11/07/25 08:40
Date Received: 11/07/25 16:42
Sample Depth: 4

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		11/14/25 09:26	11/14/25 12:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 12:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/14/25 09:26	11/14/25 12:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 12:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/14/25 09:26	11/14/25 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:57*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/14/25 09:26*	*11/14/25 12:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/25 12:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/25 12:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 12:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 12:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/25 10:38	11/14/25 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/11/25 10:38*	*11/14/25 12:37*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/11/25 10:38*	*11/14/25 12:37*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: FS 02
Date Collected: 11/07/25 08:40
Date Received: 11/07/25 16:42
Sample Depth: 4

Lab Sample ID: 890-9054-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		10.1		mg/Kg			11/13/25 03:18	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-9054-1	SW 01	95	95
890-9054-1 MS	SW 01	110	109
890-9054-1 MSD	SW 01	98	121
890-9054-2	SW 02	106	103
890-9054-3	FS 01	100	107
890-9054-4	FS 02	105	101
LCS 880-124032/1-A	Lab Control Sample	101	112
LCSD 880-124032/2-A	Lab Control Sample Dup	102	114
MB 880-124032/5-A	Method Blank	106	94

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-9052-A-16-C MS	Matrix Spike	74	92
890-9052-A-16-D MSD	Matrix Spike Duplicate	73	93
890-9054-1	SW 01	147 S1+	182 S1+
890-9054-2	SW 02	79	91
890-9054-3	FS 01	83	101
890-9054-4	FS 02	79	93
LCS 880-123663/2-A	Lab Control Sample	82	101
LCSD 880-123663/3-A	Lab Control Sample Dup	81	100
MB 880-123663/1-A	Method Blank	96	115

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-124032/5-A
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124032

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/14/25 09:26	11/14/25 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/25 09:26	11/14/25 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/25 09:26	11/14/25 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/14/25 09:26*	*11/14/25 11:34*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/14/25 09:26*	*11/14/25 11:34*	*1*

Lab Sample ID: LCS 880-124032/1-A
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124032

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1026		mg/Kg		103	70 - 130		
Toluene			0.100	0.08447		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.09191		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1935		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.1003		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-124032/2-A
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124032

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	2	35
Toluene			0.100	0.08753		mg/Kg		88	70 - 130	4	35
Ethylbenzene			0.100	0.09676		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2043		mg/Kg		102	70 - 130	5	35
o-Xylene			0.100	0.1056		mg/Kg		106	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-9054-1 MS
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: SW 01
Prep Type: Total/NA
Prep Batch: 124032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09914		mg/Kg		99	70 - 130		
Toluene	<0.00200	U	0.100	0.08444		mg/Kg		84	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

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

Lab Sample ID: 890-9054-1 MS
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: SW 01
Prep Type: Total/NA
Prep Batch: 124032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09352		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1971		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.09938		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-9054-1 MSD
Matrix: Solid
Analysis Batch: 124020

Client Sample ID: SW 01
Prep Type: Total/NA
Prep Batch: 124032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1062		mg/Kg		106	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.08674		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09450		mg/Kg		95	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2029		mg/Kg		101	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*

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

Lab Sample ID: MB 880-123663/1-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123663

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/25 10:38	11/14/25 06:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/25 10:38	11/14/25 06:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/25 10:38	11/14/25 06:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*11/11/25 10:38*	*11/14/25 06:09*	*1*
o-Terphenyl	*115*		*70 - 130*	*11/11/25 10:38*	*11/14/25 06:09*	*1*

Lab Sample ID: LCS 880-123663/2-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123663

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	881.7		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)			1000	808.5		mg/Kg		81	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

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

Lab Sample ID: LCS 880-123663/2-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123663

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-123663/3-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 123663

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	868.9		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	821.1		mg/Kg		82	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-9052-A-16-C MS
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123663

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	806.4		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	767.8		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-9052-A-16-D MSD
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 123663

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	808.0		mg/Kg		81	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	772.6		mg/Kg		77	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	93		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-123611/1-A
Matrix: Solid
Analysis Batch: 123814

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			11/13/25 01:15	1

Lab Sample ID: LCS 880-123611/2-A
Matrix: Solid
Analysis Batch: 123814

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-123611/3-A
Matrix: Solid
Analysis Batch: 123814

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	241.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-9054-2 MS
Matrix: Solid
Analysis Batch: 123814

Client Sample ID: SW 02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1630	F1	1250	3019	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-9054-2 MSD
Matrix: Solid
Analysis Batch: 123814

Client Sample ID: SW 02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1630	F1	1250	3007		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

GC VOA

Analysis Batch: 124020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	8021B	124032
890-9054-2	SW 02	Total/NA	Solid	8021B	124032
890-9054-3	FS 01	Total/NA	Solid	8021B	124032
890-9054-4	FS 02	Total/NA	Solid	8021B	124032
MB 880-124032/5-A	Method Blank	Total/NA	Solid	8021B	124032
LCS 880-124032/1-A	Lab Control Sample	Total/NA	Solid	8021B	124032
LCSD 880-124032/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124032
890-9054-1 MS	SW 01	Total/NA	Solid	8021B	124032
890-9054-1 MSD	SW 01	Total/NA	Solid	8021B	124032

Prep Batch: 124032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	5035	
890-9054-2	SW 02	Total/NA	Solid	5035	
890-9054-3	FS 01	Total/NA	Solid	5035	
890-9054-4	FS 02	Total/NA	Solid	5035	
MB 880-124032/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124032/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124032/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9054-1 MS	SW 01	Total/NA	Solid	5035	
890-9054-1 MSD	SW 01	Total/NA	Solid	5035	

Analysis Batch: 124091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	Total BTEX	
890-9054-2	SW 02	Total/NA	Solid	Total BTEX	
890-9054-3	FS 01	Total/NA	Solid	Total BTEX	
890-9054-4	FS 02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 123663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	8015NM Prep	
890-9054-2	SW 02	Total/NA	Solid	8015NM Prep	
890-9054-3	FS 01	Total/NA	Solid	8015NM Prep	
890-9054-4	FS 02	Total/NA	Solid	8015NM Prep	
MB 880-123663/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-123663/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-123663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9052-A-16-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9052-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 124027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	8015B NM	123663
890-9054-2	SW 02	Total/NA	Solid	8015B NM	123663
890-9054-3	FS 01	Total/NA	Solid	8015B NM	123663
890-9054-4	FS 02	Total/NA	Solid	8015B NM	123663
MB 880-123663/1-A	Method Blank	Total/NA	Solid	8015B NM	123663
LCS 880-123663/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	123663

QC Association Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

GC Semi VOA (Continued)

Analysis Batch: 124027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-123663/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	123663
890-9052-A-16-C MS	Matrix Spike	Total/NA	Solid	8015B NM	123663
890-9052-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	123663

Analysis Batch: 124162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Total/NA	Solid	8015 NM	
890-9054-2	SW 02	Total/NA	Solid	8015 NM	
890-9054-3	FS 01	Total/NA	Solid	8015 NM	
890-9054-4	FS 02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 123611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Soluble	Solid	DI Leach	
890-9054-2	SW 02	Soluble	Solid	DI Leach	
890-9054-3	FS 01	Soluble	Solid	DI Leach	
890-9054-4	FS 02	Soluble	Solid	DI Leach	
MB 880-123611/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-123611/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-123611/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9054-2 MS	SW 02	Soluble	Solid	DI Leach	
890-9054-2 MSD	SW 02	Soluble	Solid	DI Leach	

Analysis Batch: 123814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9054-1	SW 01	Soluble	Solid	300.0	123611
890-9054-2	SW 02	Soluble	Solid	300.0	123611
890-9054-3	FS 01	Soluble	Solid	300.0	123611
890-9054-4	FS 02	Soluble	Solid	300.0	123611
MB 880-123611/1-A	Method Blank	Soluble	Solid	300.0	123611
LCS 880-123611/2-A	Lab Control Sample	Soluble	Solid	300.0	123611
LCSD 880-123611/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	123611
890-9054-2 MS	SW 02	Soluble	Solid	300.0	123611
890-9054-2 MSD	SW 02	Soluble	Solid	300.0	123611

Lab Chronicle

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: SW 01
Date Collected: 11/07/25 08:30
Date Received: 11/07/25 16:42

Lab Sample ID: 890-9054-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124032	11/14/25 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124020	11/14/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124091	11/14/25 11:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			124162	11/14/25 11:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	123663	11/11/25 10:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124027	11/14/25 11:36	FC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	123611	11/10/25 16:26	SA	EET MID
Soluble	Analysis	300.0		1			123814	11/13/25 02:48	CS	EET MID

Client Sample ID: SW 02
Date Collected: 11/07/25 14:40
Date Received: 11/07/25 16:42

Lab Sample ID: 890-9054-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	124032	11/14/25 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124020	11/14/25 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124091	11/14/25 12:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			124162	11/14/25 11:51	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	123663	11/11/25 10:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124027	11/14/25 11:51	FC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	123611	11/10/25 16:26	SA	EET MID
Soluble	Analysis	300.0		5			123814	11/13/25 02:54	CS	EET MID

Client Sample ID: FS 01
Date Collected: 11/07/25 08:35
Date Received: 11/07/25 16:42

Lab Sample ID: 890-9054-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	124032	11/14/25 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124020	11/14/25 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124091	11/14/25 12:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			124162	11/14/25 12:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	123663	11/11/25 10:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124027	11/14/25 12:06	FC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	123611	11/10/25 16:26	SA	EET MID
Soluble	Analysis	300.0		1			123814	11/13/25 03:12	CS	EET MID

Client Sample ID: FS 02
Date Collected: 11/07/25 08:40
Date Received: 11/07/25 16:42

Lab Sample ID: 890-9054-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124032	11/14/25 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124020	11/14/25 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124091	11/14/25 12:57	SA	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

Client Sample ID: FS 02

Date Collected: 11/07/25 08:40
Date Received: 11/07/25 16:42

Lab Sample ID: 890-9054-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			124162	11/14/25 12:37	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	123663	11/11/25 10:38	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124027	11/14/25 12:37	FC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	123611	11/10/25 16:26	SA	EET MID
Soluble	Analysis	300.0		1			123814	11/13/25 03:18	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 330H

Job ID: 890-9054-1
SDG: 03C1558738

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU 330H

Job ID: 890-9054-1
SDG: 03C1558738

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 330H

Job ID: 890-9054-1
SDG: 03C1558738

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9054-1	SW 01	Solid	11/07/25 08:30	11/07/25 16:42	0-4
890-9054-2	SW 02	Solid	11/07/25 14:40	11/07/25 16:42	0-4
890-9054-3	FS 01	Solid	11/07/25 08:35	11/07/25 16:42	4
890-9054-4	FS 02	Solid	11/07/25 08:40	11/07/25 16:42	4

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Chain of Custody

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

Work Order No: ____________

www.xenco.com Page 1 of 1

Project Manager:	Jeremy Reich	Bill to: (if different)	Robert Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	432-296-0627	Email:	Kthomason; Tmorrissey; Thillard; Jreich; Bbelill @ensolum.com

Work Order Comments

Program: UST/PST ☐RP ☐rownfields ☐RC ☐perfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 330H	Turn Around	
Project Number:	03C1558738	☐ Routine	☐ Rush
Project Location:	32.197505,-103.827318	Due Date:	
Sampler's Name:	Evan roe	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNMe219
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.4
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.6
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

890-9054 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH	BTEX	Sample Comments
SW01	Soil	11/7/2025	830	0-4	Comp	1	✓	✓	✓	Incident ID: NAB1926638462
SW02	Soil	11/7/2025	1440	0-4	Comp	1	✓	✓	✓	CC: 1139561001
FS01	Soil	11/7/2025	835	4	Comp	1	✓	✓	✓	GFCM: 48605000
FS02	Soil	11/7/2025	840	4	Comp	1	✓	✓	✓	

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2SO_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	16:42 11/7	4		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-6092.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-9054-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 11/13/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: PLU 330H	Project #: 89000110			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW 01 (890-9054-1)	11/7/25	08:30 Mountain	G	Solid			X	X	X	X	X	1	
SW 02 (890-9054-2)	11/7/25	14:40 Mountain	G	Solid			X	X	X	X	X	1	
FS 01 (890-9054-3)	11/7/25	08:35 Mountain	G	Solid			X	X	X	X	X	1	
FS 02 (890-9054-4)	11/7/25	08:40 Mountain	G	Solid			X	X	X	X	X	1	

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

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/10 1630		[signature]		
2	Relinquished by:	Date/Time:	Company	Received by: [signature] TKL	Date/Time: 11/11/25 0800	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1 IR-8 (0.1)

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9054-1
SDG Number: 03C1558738

Login Number: 9054
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9054-1
SDG Number: 03C1558738

Login Number: 9054
List Number: 2
Creator: Lee, Randall

List Source: Eurofins Midland
List Creation: 11/11/25 08:19 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jeremy Reich
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/19/2026 6:07:59 PM

JOB DESCRIPTION

PLU 330 H
03C1558738

JOB NUMBER

890-9366-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

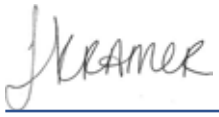
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
1/19/2026 6:07:59 PM

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

Client: Ensolum
Project/Site: PLU 330 H

Laboratory Job ID: 890-9366-1
SDG: 03C1558738

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

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 330 H

Job ID: 890-9366-1

Job ID: 890-9366-1 Eurofins Carlsbad

Job Narrative
890-9366-1

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

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

Receipt
The samples were received on 1/14/2026 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW 01 (890-9366-1) and SW 02 (890-9366-2).

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: (MB 880-128971/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-128971/2-A) and (LCSD 880-128971/3-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.

Client Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Client Sample ID: SW 01

Lab Sample ID: 890-9366-1
Matrix: Solid
Date Collected: 01/13/26 13:00
Date Received: 01/14/26 14:45
Sample Depth: 0-4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/15/26 10:46	01/15/26 18:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/15/26 10:46	01/15/26 18:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/15/26 10:46	01/15/26 18:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/15/26 10:46	01/15/26 18:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/15/26 10:46	01/15/26 18:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/15/26 10:46	01/15/26 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/15/26 10:46*	*01/15/26 18:05*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/15/26 10:46*	*01/15/26 18:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/15/26 18:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**257**		50.0		mg/Kg			01/19/26 12:24	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		01/14/26 14:50	01/19/26 12:24	1
Diesel Range Organics (Over C10-C28)	**149**		50.0		mg/Kg		01/14/26 14:50	01/19/26 12:24	1
Oil Range Organics (Over C28-C36)	**108**		50.0		mg/Kg		01/14/26 14:50	01/19/26 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*01/14/26 14:50*	*01/19/26 12:24*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/14/26 14:50*	*01/19/26 12:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		10.1		mg/Kg			01/16/26 14:22	1

Client Sample ID: SW 02

Lab Sample ID: 890-9366-2
Matrix: Solid
Date Collected: 01/14/26 12:20
Date Received: 01/14/26 14:45
Sample Depth: 0-4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/15/26 10:46	01/15/26 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/15/26 10:46	01/15/26 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/15/26 10:46	01/15/26 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/15/26 10:46	01/15/26 18:25	1
o-Xylene	**0.00349**		0.00199		mg/Kg		01/15/26 10:46	01/15/26 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/15/26 10:46	01/15/26 18:25	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Client Sample ID: SW 02

Date Collected: 01/14/26 12:20
Date Received: 01/14/26 14:45
Sample Depth: 0-4

Lab Sample ID: 890-9366-2

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/15/26 10:46*	*01/15/26 18:25*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/15/26 10:46*	*01/15/26 18:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/15/26 18:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.3**		49.8	mg/Kg			01/19/26 12:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/14/26 14:50	01/19/26 12:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/14/26 14:50	01/19/26 12:38	1
Oil Range Organics (Over C28-C36)	**68.3**		49.8	mg/Kg		01/14/26 14:50	01/19/26 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/14/26 14:50*	*01/19/26 12:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*01/14/26 14:50*	*01/19/26 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**352**		10.0	mg/Kg			01/16/26 14:29	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-66980-A-1-C MS	Matrix Spike	100	89
880-66980-A-1-D MSD	Matrix Spike Duplicate	107	93
890-9366-1	SW 01	116	104
890-9366-2	SW 02	111	94
LCS 880-128942/1-A	Lab Control Sample	98	87
LCSD 880-128942/2-A	Lab Control Sample Dup	99	86
MB 880-128942/5-A	Method Blank	127	77

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-66996-A-11-B MS	Matrix Spike	108	105
880-66996-A-11-C MSD	Matrix Spike Duplicate	108	105
890-9366-1	SW 01	103	114
890-9366-2	SW 02	99	104
LCS 880-128971/2-A	Lab Control Sample	147 S1+	145 S1+
LCSD 880-128971/3-A	Lab Control Sample Dup	148 S1+	145 S1+
MB 880-128971/1-A	Method Blank	135 S1+	148 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-128942/5-A
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128942

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/26 10:46	01/15/26 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/26 10:46	01/15/26 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/26 10:46	01/15/26 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/14/26 10:46	01/15/26 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/26 10:46	01/15/26 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/26 10:46	01/15/26 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*01/14/26 10:46*	*01/15/26 12:20*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/14/26 10:46*	*01/15/26 12:20*	*1*

Lab Sample ID: LCS 880-128942/1-A
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128942

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1065		mg/Kg		107	70 - 130		
Toluene			0.100	0.1055		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1071		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2355		mg/Kg		118	70 - 130		
o-Xylene			0.100	0.1179		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-128942/2-A
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 128942

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1026		mg/Kg		103	70 - 130	4	35
Toluene			0.100	0.1030		mg/Kg		103	70 - 130	2	35
Ethylbenzene			0.100	0.1025		mg/Kg		103	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2234		mg/Kg		112	70 - 130	5	35
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-66980-A-1-C MS
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 128942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08585		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.100	0.08591		mg/Kg		86	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

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

Lab Sample ID: 880-66980-A-1-C MS
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 128942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.09691		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-66980-A-1-D MSD
Matrix: Solid
Analysis Batch: 129010

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 128942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08426		mg/Kg		84	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.08658		mg/Kg		87	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.08867		mg/Kg		89	70 - 130	15	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1998		mg/Kg		100	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1162		mg/Kg		116	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

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

Lab Sample ID: MB 880-128971/1-A
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128971

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/26 14:50	01/19/26 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/26 14:50	01/19/26 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/26 14:50	01/19/26 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/14/26 14:50*	*01/19/26 02:58*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*01/14/26 14:50*	*01/19/26 02:58*	*1*

Lab Sample ID: LCS 880-128971/2-A
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128971

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1109		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1149		mg/Kg		115	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

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

Lab Sample ID: LCS 880-128971/2-A
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128971

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-128971/3-A
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 128971

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1165		mg/Kg		117	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	148	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: 880-66996-A-11-B MS
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 128971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	772.3		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	745.2		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-66996-A-11-C MSD
Matrix: Solid
Analysis Batch: 129232

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 128971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	774.9		mg/Kg		78	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	771.4		mg/Kg		77	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-129101/1-A
Matrix: Solid
Analysis Batch: 129131

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			01/16/26 10:55	1

Lab Sample ID: LCS 880-129101/2-A
Matrix: Solid
Analysis Batch: 129131

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-129101/3-A
Matrix: Solid
Analysis Batch: 129131

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	256.0		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-67063-A-25-B MS
Matrix: Solid
Analysis Batch: 129131

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	110		252	370.5		mg/Kg		104	90 - 110		

Lab Sample ID: 880-67063-A-25-C MSD
Matrix: Solid
Analysis Batch: 129131

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	110		252	371.9		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

GC VOA

Prep Batch: 128942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	5035	
890-9366-2	SW 02	Total/NA	Solid	5035	
MB 880-128942/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-128942/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-128942/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-66980-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-66980-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 129010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	8021B	128942
890-9366-2	SW 02	Total/NA	Solid	8021B	128942
MB 880-128942/5-A	Method Blank	Total/NA	Solid	8021B	128942
LCS 880-128942/1-A	Lab Control Sample	Total/NA	Solid	8021B	128942
LCSD 880-128942/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	128942
880-66980-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	128942
880-66980-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	128942

Analysis Batch: 129170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	Total BTEX	
890-9366-2	SW 02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 128971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	8015NM Prep	
890-9366-2	SW 02	Total/NA	Solid	8015NM Prep	
MB 880-128971/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-128971/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-128971/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-66996-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-66996-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 129232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	8015B NM	128971
890-9366-2	SW 02	Total/NA	Solid	8015B NM	128971
MB 880-128971/1-A	Method Blank	Total/NA	Solid	8015B NM	128971
LCS 880-128971/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	128971
LCSD 880-128971/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	128971
880-66996-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	128971
880-66996-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	128971

Analysis Batch: 129366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Total/NA	Solid	8015 NM	
890-9366-2	SW 02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

HPLC/IC

Leach Batch: 129101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Soluble	Solid	DI Leach	
890-9366-2	SW 02	Soluble	Solid	DI Leach	
MB 880-129101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-129101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-129101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-67063-A-25-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-67063-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 129131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9366-1	SW 01	Soluble	Solid	300.0	129101
890-9366-2	SW 02	Soluble	Solid	300.0	129101
MB 880-129101/1-A	Method Blank	Soluble	Solid	300.0	129101
LCS 880-129101/2-A	Lab Control Sample	Soluble	Solid	300.0	129101
LCSD 880-129101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	129101
880-67063-A-25-B MS	Matrix Spike	Soluble	Solid	300.0	129101
880-67063-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	129101

Lab Chronicle

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Client Sample ID: SW 01
Date Collected: 01/13/26 13:00
Date Received: 01/14/26 14:45

Lab Sample ID: 890-9366-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	128942	01/15/26 10:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	129010	01/15/26 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			129170	01/15/26 18:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			129366	01/19/26 12:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	128971	01/14/26 14:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	129232	01/19/26 12:24	FC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	129101	01/16/26 08:05	SI	EET MID
Soluble	Analysis	300.0		1			129131	01/16/26 14:22	CS	EET MID

Client Sample ID: SW 02
Date Collected: 01/14/26 12:20
Date Received: 01/14/26 14:45

Lab Sample ID: 890-9366-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	128942	01/15/26 10:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	129010	01/15/26 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			129170	01/15/26 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			129366	01/19/26 12:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	128971	01/14/26 14:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	129232	01/19/26 12:38	FC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	129101	01/16/26 08:05	SI	EET MID
Soluble	Analysis	300.0		1			129131	01/16/26 14:29	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 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU 330 H

Job ID: 890-9366-1
SDG: 03C1558738

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 330 H

Job ID: 890-9366-1
SDG: 03C1558738

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9366-1	SW 01	Solid	01/13/26 13:00	01/14/26 14:45	0-4
890-9366-2	SW 02	Solid	01/14/26 12:20	01/14/26 14:45	0-4

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Jeremy Reich	Bill to: (if different)	Robert Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	432-296-0627	Email:	Kthomason; Tmorrissey; Thillard; Jreich; Bbelill; @ensolum.com richard.kotzur@exxonmobil.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Perfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 330H	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558738	Due Date:	
Project Location:	32.197505,-103.827318	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Evan Roe		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	Inman	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.4	
Total Containers:		Corrected Temperature:	2.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH	BTEX	Chlorides	Sample Comments
SW 01	Soil	1/13/2026	1300	0-4	Comp	1		✓	✓	✓	Incident ID: NAB1926638462
SW02	Soil	1/14/2026	1220	0-4	Comp	1		✓	✓	✓	CC: 1139561001
											GFCM: 48605000

890-9366 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-14 1445	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020 2

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-6364 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-9366-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 1/20/2026			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: PLU 330 H	Project #: 89000110			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	SM4500_Cl_E/DI_LEACH	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW 01 (890-9366-1)	1/13/26	13 00 Mountain	G	Solid			X	X	X	X	X		
SW 02 (890-9366-2)	1/14/26	12.20 Mountain	G	Solid			X	X	X	X	X		

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1-14 1630		[signature]	1-15-26 800	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9366-1
SDG Number: 03C1558738

Login Number: 9366
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9366-1
SDG Number: 03C1558738

Login Number: 9366
List Number: 2
Creator: Dyal, Erica

List Source: Eurofins Midland
List Creation: 01/15/26 08:31 AM

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

ENSOLUM

APPENDIX E

NMOCD Correspondence

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Thursday, December 11, 2025 1:26 PM
To: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: RE: [EXTERNAL] FW: XTO - Variance Request - Poker Lake Unit 330H Flow Line - NAB1926638462

Good afternoon, Mr. Woodall

Please be advised that OCD guidance regarding distance to groundwater level data from incidents and what will be accepted is being reconsidered and under review. Future requests outside of the 0.50 mile range may not be accepted down the road. With that being conveyed, I do agree that multiple data points are better than one groundwater level point. XTO Energy is approved to use the water level data as requested for C-4478. Please keep a copy of this for your records and submit it along with the closure report. I will update the incident file to reflect this approval as well.

Thank you,

Mike

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Tuesday, December 9, 2025 7:24 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: tmorrissey@ensolum.com
Subject: [EXTERNAL] FW: XTO - Variance Request - Poker Lake Unit 330H Flow Line - NAB1926638462

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

XTO Energy respectfully requests a variance from the Closure Criteria based on depth to groundwater determination for a release at the Poker Lake Unit 330H Flow Line (Site), located at coordinates 32.197505°, -103.827318°.

On August 13, 2019, a failure of a produced water flowline resulted in the release of approximately 7 barrels (bbls) of produced water and 1 bbl of crude oil along a lease road and into the adjacent pasture. A vacuum truck was dispatched to recover free-standing fluid, and approximately 4 bbls were successfully recovered.

Site characterization was conducted in accordance with Table I of the Closure Criteria for Soils Impacted by a Release, as outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). The nearest significant watercourse is a seasonal dry wash located approximately 9,354 feet northwest of the Site. The Site is situated more than 200 feet from any lakebed, sinkhole, or playa lake, and more than 300 feet from any occupied residence, school, hospital, institution, church, or wetland. It is also located over 1,000 feet from any freshwater well or spring, outside of a 100-year floodplain, and not overlying a subsurface mine. The Site is not underlain by unstable geology and is designated as a low potential karst area. All potential receptors are identified in Figure 1.

Attached groundwater documentation includes data from surrounding New Mexico Office of the State Engineer (OSE) wells, all indicating groundwater depths greater than 100 feet

below ground surface (bgs). While the only permitted data within 0.5 miles of the Site are from shallow soil borings (C-03558 and C-03702) drilled to depths of 20–30 feet bgs, additional permitted borings—C-4478, C-04483, and C-4759—located between 0.62 and 0.92 miles from the Site and drilled between 2020 and 2023, consistently show groundwater depths exceeding 100 feet bgs. Please note: due to a typo, the well log for soil boring C-04483 was originally submitted with an incorrect longitude. The corrected well log was resubmitted to the OSE on April 26, 2023, to correspond to the actual well location and the permitted Global Positioning Coordinates (GPS), however the update appears not to be updated on their map yet.

Based on this regional data, XTO requests that the New Mexico Oil Conservation Division (NMOCD) accept the well data from boring C-4478, located 0.62 miles from the Site, as sufficient documentation of groundwater depth. Additionally, all surficial water features—including emergent wetlands, intermittent streams, and riverine systems—are located over a mile northeast of the Site. The groundwater data between these features and the Site further support a low likelihood of shallow groundwater or perched aquifers.

XTO believes that multiple data points showing consistent groundwater depths over the past 3–5 years provide a more robust representation than a single point located slightly closer to the Site. All referenced well records and logs are included in Appendix A and depicted on Figure 1.

Based on the presented groundwater data—collected within the last five years and located 0.62 miles from the Site—surficial water features located greater than 1 mile from the Site, and the absence of nearby sensitive receptors, XTO respectfully requests a variance from the NMOCD's preference for groundwater data within 0.5 miles of the Site. XTO requests approval to apply Closure Criteria reflective of groundwater depths greater than 100 feet bgs, as supported by the regional data.

If this needs to be uploaded to the portal, please let me know.

R. Dale Woodall

Project Manager

ExxonMobil Environmental and Property Solutions Company

3104 E. Greene St.

Carlsbad, NM 88220

Cell Phone: 575-988-4374

Robert.D.Woodall@exxonmobil.com

ENSOLUM

APPENDIX E

Spill Volume Calculation

Location:	Poker Lake Unit 330H flow line (30-015-39253)	
Spill Date:	8/13/2019	

Approximate Area=	270.00	ft^2
Average Saturation (or depth) of Spill=	4.00	inches

Approximate Oil %	10	
Average Porosity Factor=	0.15	
Approximate Volume Recovered=	5	bbls

VOLUME OF LEAK		
Total Oil=	0.74	barrels
Total Produced Water=	6.66	barrels

VOLUME RECOVERED

Total Oil=	0.50	barrels
Total Produced Water=	4.50	barrels

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 571168

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1926638462**
Incident Name	**NAB1926638462 POKER LAKE UNIT 330H FLOW LINE @ FAB1926638136**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAB1926638136] POKER LAKE UNIT 330H FLOW LINE**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 330H FLOW LINE
Date Release Discovered	08/13/2019
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	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: 7 BBL | Recovered: 4 BBL | Lost: 3 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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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 04/03/2026

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Phone: (505) 476-3441

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
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.	
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)	1370
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	68.3
GRO+DRO (EPA SW-846 Method 8015M)	68.3
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	10/14/2025
On what date will (or did) the final sampling or liner inspection occur	02/04/2026
On what date will (or was) the remediation complete(d)	02/04/2026
What is the estimated surface area (in square feet) that will be reclaimed	433
What is the estimated volume (in cubic yards) that will be reclaimed	64
What is the estimated surface area (in square feet) that will be remediated	433
What is the estimated volume (in cubic yards) that will be remediated	64
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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State of New Mexico
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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	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: 04/03/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**548278**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/04/2026**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	282
What was the total volume (cubic yards) remediated	42
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	220
What was the total volume (in cubic yards) reclaimed	33
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site to address the August 2019 release of crude oil. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated COC concentrations were compliant with the Closure Criteria and reclamation requirements. The release is defined laterally by confirmation sidewall soil samples SW01 and SW02, and delineation soil samples SS01 through SS07. The release is defined vertically in the pasture area by confirmation soil samples CS01 and CS02, and delineation soil sample PH01 collect at depths ranging from 0.5 feet bgs to 4 feet bgs. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation will be backfilled with material purchased locally and the Site will be recontoured to match pre-existing Site conditions and reseeded with the appropriate BLM seed mixture. Excavation of soil has mitigated impacts to soil that exceeded Closure Criteria and reclamation requirements at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number NAPP2524648926.
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: 04/03/2026

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 571168
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	4/9/2026
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.	4/9/2026
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2026
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/9/2026
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/9/2026
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/9/2026