



July 11, 2025

New Mexico Oil Conservation Division

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

**Re: Deferral Request
PLU 25 BD West Battery
Incident Number nAPP2502328318
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the PLU 25 BD West Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil release. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2502328318 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit F, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.104301°, -103.839110°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 22, 2025, a dump valve froze resulting in the release of approximately 14 barrels (bbls) of crude oil onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 5 bbls of crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) and submitted an Initial Release C-141 Application (C-141) on January 23, 2025. The release was assigned Incident Number nAPP2502328318.

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. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On February 24, 2021, an Office of the State Engineer (OSE) permitted soil boring (C-4498) was drilled 0.30 miles west of the Site utilizing

hollow stem auger method. Soil boring C-4498 was drilled to a terminal depth of 109 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 563 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 7, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release occurred on an active pad and near active production surface equipment. Nine delineation soil samples (SS01 through SS09) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the release extent. On March 5, 2025, Ensolum personnel returned to Site to oversee delineation activities. Two potholes were advanced via heavy equipment in the vicinity of soil samples SS03 and SS05. Discrete soil samples were collected from the delineation borehole at depths ranging from 1-foot bgs to maximum depth of 7 feet bgs. 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. Field screening results and observations of the soil samples from the pothole were logged on a lithologic/soil sampling log, which is included in Appendix B. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in a Photographic Log in Appendix C.

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

Laboratory analytical results for delineation soil samples SS01 through SS05 collected from 0.5 feet bgs within the release extent indicated BTEX and TPH concentrations exceeded Closure Criteria. Laboratory analytical results for delineation soil samples SS06 indicated all COCs were in compliance with Closure Criteria but exceeded reclamation requirements. A step out sample of SS06 was collected to confirm lateral delineation. Laboratory analytical results for delineation soil samples SS07 through SS09 indicated all COC concentrations were compliant with the Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results for delineation soil sample SS03 indicated BTEX and/or TPH concentrations exceeded Closure Criteria at 1-foot and 2 feet bgs, but all COCs were in compliance with Closure Criteria for soil samples collected from 3 feet through 7 feet bgs. Laboratory analytical results for delineation soil sample SS05 indicated BTEX and TPH concentrations exceeded Closure Criteria for soil samples collected from 1-foot bgs, but all COCs were in compliance with Closure Criteria for 2 feet through 4 feet bgs. Based on visible staining in the release area and laboratory analytical results, additional remediation activities were warranted.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Between April 15 and April 22, 2025, Ensolum personnel returned to the Site to oversee excavation activities. Excavation was conducted, to the maximum extent practicable due to the proximity of active production equipment. XTO safety policy prohibits excavation within 2 feet of active production equipment and pipelines. Once impacted soil was removed, 5-point composite soil samples were collected every 200 square feet from the floor and the sidewall of the excavation extent. The 5-point composite 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 FS01 through FS16 were collected from the floor of the excavation from depths ranging from 2 feet to 3 feet bgs. Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The confirmation soil samples were collected and handled as described above at Cardinal in Hobbs, New Mexico. The excavation and confirmation soil sample locations are depicted on Figure 3.

The excavation extent measured approximately 3,200 square feet and approximately 240 cubic yards of impacted soil was removed. The impacted soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. The final excavation extent was backfilled with material purchased locally and recontoured to match pre-existing Site conditions.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation soil samples, FS01 through FS16, indicated all COC concentrations were in compliance with Closure Criteria. Laboratory analytical results for excavation sidewall samples SW01 through SW04 indicated all COC concentrations were in compliance with Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix C.

The release occurred on the well pad near production equipment and surface pipelines. The estimated area of remaining impacted soil measures approximately 1,930 square feet and, assuming a 3-foot depth based on the delineation soil samples SS03C, a total of approximately 215 cubic yards of impacted soil remains in place. The estimated area of remaining impacted soil and delineation soil sample locations are presented on Figure 4. In addition, 197 cubic yards of waste-containing soil remains in place and will be removed during reclamation activities following pad abandonment.

XTO Energy, Inc
Deferral Request
PLU 25 BD West Battery



DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines preventing full removal of impacted soil. The impacted soil is limited to the area between active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil sample at 3 feet bgs. The soil is laterally delineated by delineation soil samples from SS06 through SS09.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil remaining in place is limited in lateral and vertical extent.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2502328318 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Tracy Hillard".

Tracy Hillard
Project Engineer

A handwritten signature in black ink, appearing to read "Tacoma Morrissey".

Tacoma Morrissey
Associate Principal

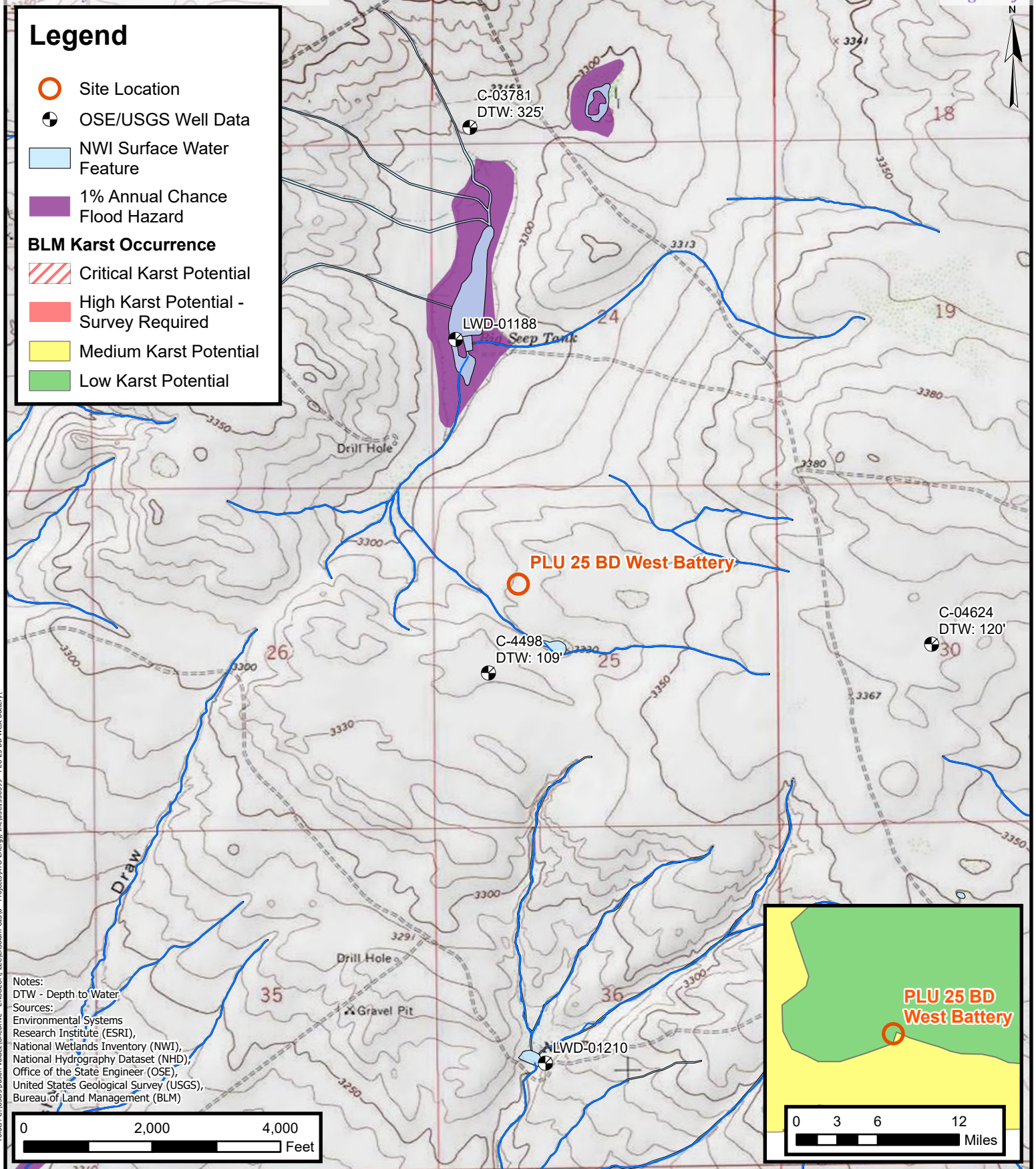
cc: Colton Brown, XTO
Kaylan Dirkx, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic / Soil Sampling Log
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence

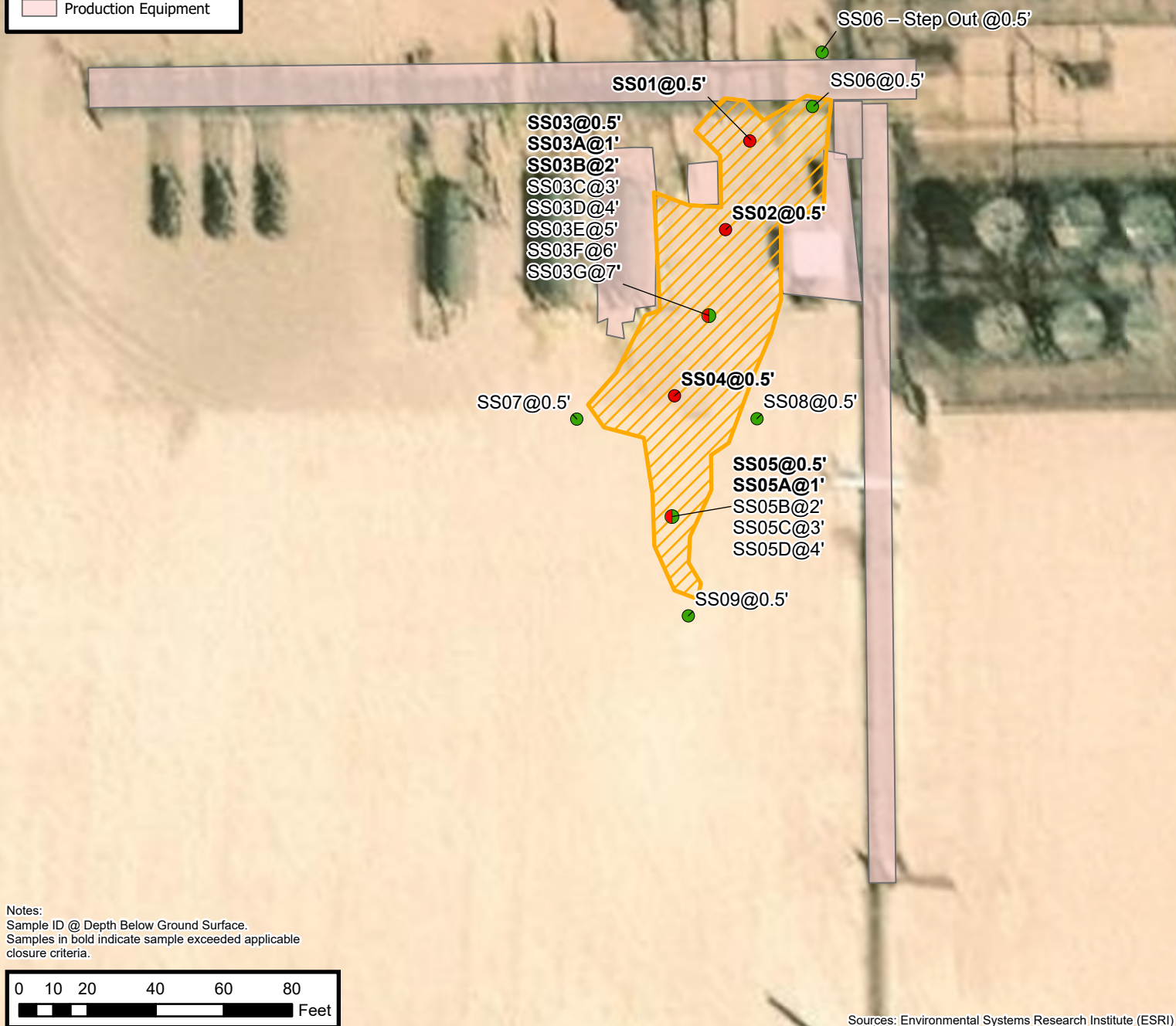


FIGURES



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent
- Production Equipment



Delineation Soil Sample Locations

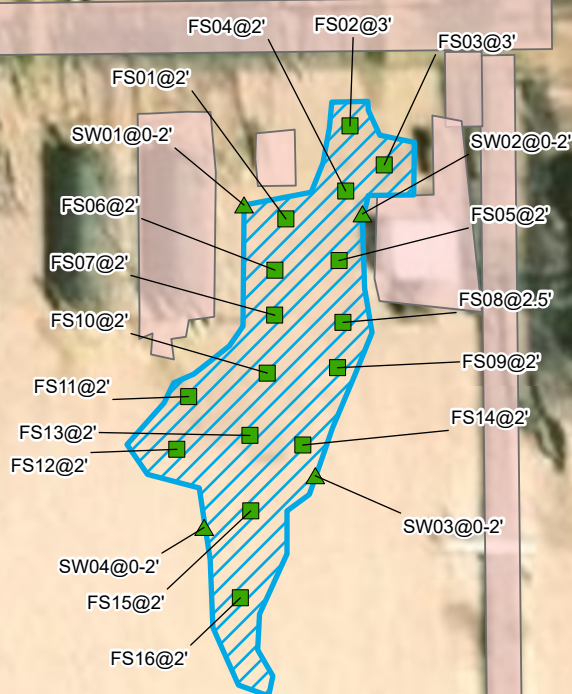
XTO Energy, Inc
 PLU 25 BD West Battery
 Incident Number: nAPP2502328318
 Unit E, Section 25, T25S, R30E
 Eddy County, New Mexico

FIGURE

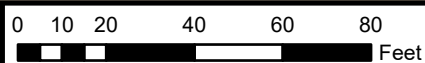
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Excavation Extent**

XTO Energy, Inc
PLU 25 BD West Battery
Incident Number: nAPP2502328318
Unit E, Section 25, T25S, R30E
Eddy County, New Mexico

FIGURE**3**

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Excavation Sidewall in Compliance with Closure Criteria
- Production Equipment
- ▨ Release Extent
- Area of Requested Deferral



SS03@0.5'
 SS03A@1'
 SS03B@2'
 SS03C@3'
 SS03D@4'
 SS03E@5'
 SS03F@6'
 SS03G@7'

SS06 - Stepout@0.5'

SW01@0-2'

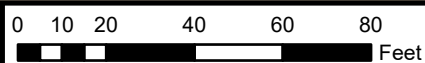
SW02@0-2'

SS07@0.5'

SS08@0.5'

SS09@0.5'

Notes:
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Area of Requested Deferral

XTO Energy, Inc
 PLU 25 BD West Battery
 Incident Number: nAPP2502328318
 Unit E, Section 25, T25S, R30E
 Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 25 BD West Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	02/07/2025	0.5	18.7	855	11,800	22,600	2,440	34,400	36,840	1,360
SS02	02/07/2025	0.5	17.3	1,010	12,400	16,400	1,650	28,800	30,450	80.0
SS03	02/07/2025	0.5	8.33	605	10,900	18,500	1,720	29,400	31,120	64.0
SS03A	03/05/2025	1	<2.00	59.0	1,450	4,610	508	6,060	6,568	48.0
SS03B	03/05/2025	2	<0.050	25.2	449	1,440	133	1,889	2,022	64.0
SS03C	03/05/2025	3	<0.050	3.75	80.0	517	34.1	597	631	32.0
SS03D	03/05/2025	4	<0.050	<0.300	<10.0	51.0	<10.0	51.0	51.0	32.0
SS03E	03/05/2025	5	<0.050	1.12	19.9	222	14.4	242	256	16.0
SS03F	03/05/2025	6	<0.050	3.17	22.1	110	<10.0	132	132	16.0
SS03G	03/05/2025	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	02/07/2025	0.5	14.0	863	15,300	17,900	1,710	33,200	34,910	96.0
SS05	02/07/2025	0.5	8.19	772	12,300	18,300	1,490	30,600	32,090	32.0
SS05A	03/05/2025	1	<1.00	70.9	923	3,300	379	4,223	4,602	48.0
SS05B	03/05/2025	2	<0.050	0.35	<10.0	81.8	<10.0	81.8	81.8	<16.0
SS05C	03/05/2025	3	<0.050	<0.300	<10.0	37.0	<10.0	37.0	37.0	32.0
SS05D	03/05/2025	4	<0.050	<0.300	<10.0	10.4	<10.0	10.4	10.4	32.0
SS06	02/07/2025	0.5	<0.050	0.531	<10.0	205	41.5	205	247	1,570
SS06 - Step Out	04/14/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS07	02/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS08	02/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	02/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Confirmation Soil Samples										
FS01	04/15/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	04/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	04/16/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS04	04/16/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS05	04/16/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS06	04/17/2025	2	<0.050	<0.300	<10.0	241	38.2	241	279	32.0
FS07	04/17/2025	2	<0.050	<0.300	<10.0	27.6	<10.0	27.6	27.6	32.0
FS08	04/22/2025	2.5	<0.050	0.387	22.7	306	19.9	329	349	32.0
FS09	04/17/2025	2	<0.050	<0.300	<10.0	330	49.2	330	379	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 25 BD West Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS10	04/22/2025	2	<0.050	<0.300	<10.0	136	<10.0	136	136	64.0
FS11	04/22/2025	2	<0.050	<0.300	<10.0	59.0	<10.0	59.0	59.0	48.0
FS12	04/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	04/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS14	04/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	04/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS16	04/22/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	04/17/2025	0-2	<0.050	<0.300	<10.0	93.6	18.6	93.6	112	64.0
SW02	04/17/2025	0-2	<0.050	<0.300	<10.0	152	<10.0	152	152	64.0
SW03	04/17/2025	0-2	<0.050	<0.300	<10.0	16.8	<10.0	16.8	16.8	32.0
SW04	04/17/2025	0-2	<0.050	<0.300	<10.0	11.0	<10.0	11.0	11.0	32.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4498			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32°	MINUTES 6'	SECONDS 1.96" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103°	50'	26.19" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 02/24/2021	DRILLING ENDED 02/24/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

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

FILE NO. C- 4498	POD NO. 1	TRN NO. 682528
LOCATION 132 T25S R30E Sec 25	WELL TAG ID NO. NA	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	34	34	Caliche, tan, no odor, no stain, gravel, dry	Y ✓ N		
	34	40	6	sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	40	56	16	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	56	72	16	sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	72	79	7	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y ✓ N		
	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOTAL ESTIMATED WELL YIELD (gpm):		0.00
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
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 WSP 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:						
				Jackie D. Atkins		03/11/2021	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4498	POD NO. 1	TRN NO. 682528
LOCATION 132 T255 R30E Sec 25	WELL TAG ID NO. NA	PAGE 2 OF 2

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 682528
File Nbr: C 04498
Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY
WSP USA
3300 NORTH A STREET
BLDG 1 #222
MIDLAND, TX 79705

Greetings:

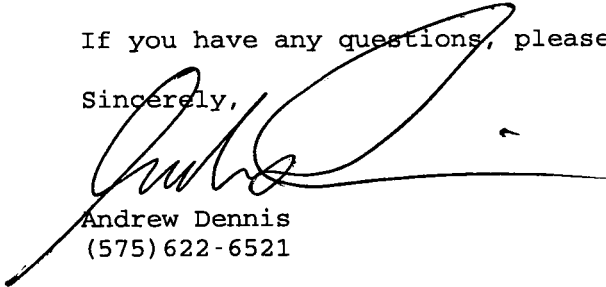
The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Sincerely,


Andrew Dennis
(575) 622-6521

drywell



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc

PLU 25 BD West Battery

Incident Number: nAPP2502328318



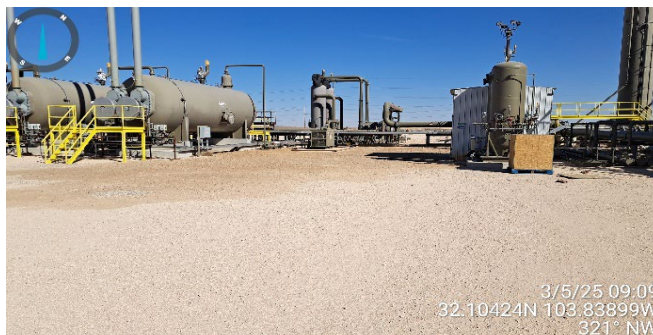
Photograph: 1 Date: 1/22/2025
Description: Initial release staining
View: West



Photograph: 2 Date: 1/22/2025
Description: Initial release staining
View: South



Photograph: 3 Date: 2/7/2025
Description: Site assessment activities
View: North



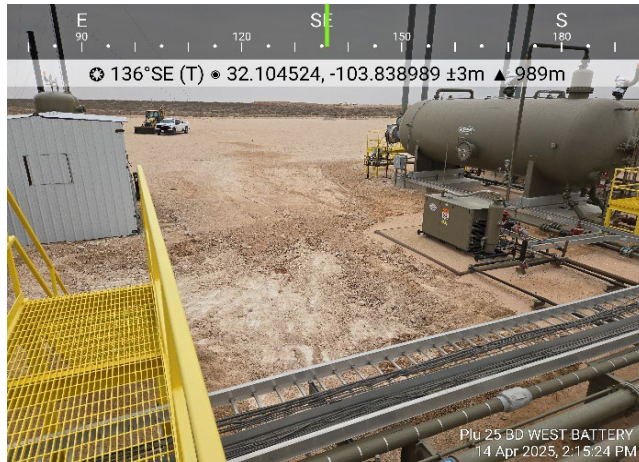
Photograph: 4 Date: 3/5/2025
Description: Delineation activities
View: Northwest

**Photographic Log**

XTO Energy, Inc

PLU 25 BD West Battery

Incident Number: nAPP2502328318



Photograph: 5 Date: 4/14/2025
Description: Excavation activities; near FS02 and SS06
View: Southeast



Photograph: 6 Date: 4/15/2025
Description: Excavation activities; near FS03
View: West



Photograph: 7 Date: 4/17/2025
Description: Excavation activities; near FS16
View: Northwest





Photograph: 8 Date: 4/23/2025
Description: Final excavation extent; near FS02
View: Southwest



APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: SS03		Date: 03/05/2025				
		Site Name: PLU 25 BD West Battery						
		Incident Number: nAPP2502328318						
		Job Number: 03C1558599						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.104346, -103.839050			Logged By: ER		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 7 feet bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-7') Light brown poorly graded with silt and small pale gravel
D	<162	1,334	Y	SS03	0.5			
D	<162	657	Y	SS03A	1	1		
D	<162	778	N	SS03B	2	2		(@2') Beige poorly graded with silt and small pale gravel
D	<162	569	N	SS03C	3	3		
D	<162	70.1	N	SS03D	4	4		
D	<162	286	N	SS03E	5	5		
D	<162	212	N	SS03F	6	6		
D	<162	1.6	N	SS03G	7	7		(@7') Light beige poorly graded with silt
Total depth @ 7 feet bgs								

 ENSOLUM		Sample Name: SS05		Date: 03/05/2025				
		Site Name: PLU 25 BD West Battery						
		Incident Number: nAPP2502328318						
		Job Number: 03C1558599						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.104184, -103.839087			Logged By: ER		Method: Backhoe			
			Hole Diameter: 24"		Total Depth: 4 feet bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-7') Light brown poorly graded with silt and small pale gravel
D	<162	1,326	Y	SS05	0.5			
D	<162	394	Y	SS05A	1	1		
D	<162	162	N	SS05B	2	2		(@2') Beige poorly graded with silt and small pale gravel
D	<162	47.5	N	SS05C	3	3		
D	<162	35.3	N	SS05D	4	4		
Total depth @ 4 feet bgs								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 14, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 .5' (H250787-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.7	5.00	02/12/2025	ND	2.22	111	2.00	4.57	QM-07
Toluene*	217	5.00	02/12/2025	ND	2.22	111	2.00	2.11	QM-07
Ethylbenzene*	89.5	5.00	02/12/2025	ND	2.28	114	2.00	3.39	GC-NC1, QM-07
Total Xylenes*	530	15.0	02/12/2025	ND	6.77	113	6.00	3.76	QM-07
Total BTX	855	30.0	02/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	02/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	11800	100	02/12/2025	ND	204	102	200	4.35		
DRO >C10-C28*	22600	100	02/12/2025	ND	209	105	200	5.31		
EXT DRO >C28-C36	2440	100	02/12/2025	ND						

Surrogate: 1-Chlorooctane 351 % 48.2-134

Surrogate: 1-Chlorooctadecane 347 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 .5' (H250787-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.3	5.00	02/12/2025	ND	2.22	111	2.00	4.57	
Toluene*	240	5.00	02/12/2025	ND	2.22	111	2.00	2.11	
Ethylbenzene*	121	5.00	02/12/2025	ND	2.28	114	2.00	3.39	GC-NC1
Total Xylenes*	628	15.0	02/12/2025	ND	6.77	113	6.00	3.76	
Total BTEx	1010	30.0	02/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12400	100	02/12/2025	ND	204	102	200	4.35	
DRO >C10-C28*	16400	100	02/12/2025	ND	209	105	200	5.31	
EXT DRO >C28-C36	1650	100	02/12/2025	ND					

Surrogate: 1-Chlorooctane 1290 % 48.2-134

Surrogate: 1-Chlorooctadecane 201 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 .5' (H250787-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.33	5.00	02/12/2025	ND	2.22	111	2.00	4.57	
Toluene*	140	5.00	02/12/2025	ND	2.22	111	2.00	2.11	
Ethylbenzene*	68.9	5.00	02/12/2025	ND	2.28	114	2.00	3.39	GC-NC1
Total Xylenes*	387	15.0	02/12/2025	ND	6.77	113	6.00	3.76	
Total BTX	605	30.0	02/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10900	100	02/12/2025	ND	204	102	200	4.35		
DRO >C10-C28*	18500	100	02/12/2025	ND	209	105	200	5.31		
EXT DRO >C28-C36	1720	100	02/12/2025	ND						

Surrogate: 1-Chlorooctane 1300 % 48.2-134

Surrogate: 1-Chlorooctadecane 216 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 04 .5' (H250787-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.0	5.00	02/12/2025	ND	2.22	111	2.00	4.57	
Toluene*	215	5.00	02/12/2025	ND	2.22	111	2.00	2.11	
Ethylbenzene*	86.5	5.00	02/12/2025	ND	2.28	114	2.00	3.39	GC-NC1
Total Xylenes*	547	15.0	02/12/2025	ND	6.77	113	6.00	3.76	
Total BTEX	863	30.0	02/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15300	100	02/12/2025	ND	204	102	200	4.35	
DRO >C10-C28*	17900	100	02/12/2025	ND	209	105	200	5.31	
EXT DRO >C28-C36	1710	100	02/12/2025	ND					

Surrogate: 1-Chlorooctane 1100 % 48.2-134

Surrogate: 1-Chlorooctadecane 307 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 .5' (H250787-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.19	5.00	02/12/2025	ND	2.22	111	2.00	4.57	
Toluene*	168	5.00	02/12/2025	ND	2.22	111	2.00	2.11	
Ethylbenzene*	104	5.00	02/12/2025	ND	2.28	114	2.00	3.39	GC-NC1
Total Xylenes*	493	15.0	02/12/2025	ND	6.77	113	6.00	3.76	
Total BTEX	772	30.0	02/12/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	12300	100	02/12/2025	ND	204	102	200	4.35		
DRO >C10-C28*	18300	100	02/12/2025	ND	209	105	200	5.31		
EXT DRO >C28-C36	1490	100	02/12/2025	ND						

Surrogate: 1-Chlorooctane 1060 % 48.2-134

Surrogate: 1-Chlorooctadecane 307 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

BILL TO ANALYSIS REQUEST

Company Name: Ensolum, LLC				P.O.#:					
Project Manager: Tracy Hillard				Company:	XTO Energy, Inc.				
Address: 601 N Martenfeld Street, Suite 400				Attn:	Cotton Brown				
City: Midland				State: TX	Zip: 79701				
Phone #: 575-937-3906				Fax #:					
Project #: 03CIS58544				Project Owner:	XTO Energy				
Project Name: PLU 2S BD W B3J				State: NM	Zip: 88220				
Project Location: 32.10441,-103.83823				Phone #:					
Sampler Name: Eren Rao				Fax #:					

Lab I.D.	Sample I.D.	Depth (feet)	(G/RAB OR C)/OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING					
				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500	

HESD78T	SSQ1	.5	G1	V		✓	2/19/25	1138	✓	✓	✓	
	SSQ2	.5	A1	-		✓	2/19/25	1150	✓	✓	✓	
	SSQ3	.5	A1	✓		✓	2/19/25	1207	✓	✓	✓	
	SSQ4	.5	A1	✓		✓	2/19/25	1215	✓	✓	✓	
	SSQ5	.5	A1	✓		✓	2/19/25	1220	✓	✓	✓	

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

Relinquished By: _____
Eren Rao

Date: *8/10/25*

Received By: _____
T Morrissey

Date: *8/10/25*

Turnaround Time: Standard Rush

Thermometer ID # *#43* *#14B*

Correction Factor *+0.3°C*

Delivered By: (Circle One)
Cool Intact Yes No

Observed Temp. °C *1.9*

Corrected Temp. °C *2.2*

Sample Condition Cool Intact ✓ X

Checked BY: (Initials) *L.R.*

All Results are emailed! Please provide Email address:
BBrell@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

Remarks: _____

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



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

February 14, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/25 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 06 .5' (H250788-01)

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	02/11/2025	ND	2.22	111	2.00	4.57	
Toluene*	0.302	0.050	02/11/2025	ND	2.22	111	2.00	2.11	
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	2.28	114	2.00	3.39	
Total Xylenes*	0.229	0.150	02/11/2025	ND	6.77	113	6.00	3.76	
Total BTEX	0.531	0.300	02/11/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	02/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	204	102	200	4.35	
DRO >C10-C28*	205	10.0	02/11/2025	ND	209	105	200	5.31	
EXT DRO >C28-C36	41.5	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 07 .5' (H250788-02)

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	02/11/2025	ND	2.22	111	2.00	4.57		
Toluene*	<0.050	0.050	02/11/2025	ND	2.22	111	2.00	2.11		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	2.28	114	2.00	3.39		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	6.77	113	6.00	3.76		
Total BTEx	<0.300	0.300	02/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	205	102	200	1.35	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	205	103	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 08 .5' (H250788-03)

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	02/11/2025	ND	2.22	111	2.00	4.57		
Toluene*	<0.050	0.050	02/11/2025	ND	2.22	111	2.00	2.11		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	2.28	114	2.00	3.39		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	6.77	113	6.00	3.76		
Total BTEX	<0.300	0.300	02/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	205	102	200	1.35	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	205	103	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/10/2025
 Reported: 02/14/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 02/07/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 09 .5' (H250788-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2025	ND	2.22	111	2.00	4.57		
Toluene*	<0.050	0.050	02/11/2025	ND	2.22	111	2.00	2.11		
Ethylbenzene*	<0.050	0.050	02/11/2025	ND	2.28	114	2.00	3.39		
Total Xylenes*	<0.150	0.150	02/11/2025	ND	6.77	113	6.00	3.76		
Total BTX	<0.300	0.300	02/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	205	102	200	1.35	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	205	103	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC						BILL TO						ANALYSIS REQUEST					
Project Manager: Tracy Hillard						P.O. #:											
Address: 601 N Marlenfeld Street, Suite 400						Company: XTO Energy, Inc											
City: Midland						Attn: Colton Brown											
Phone #: 575-937-3906						Address: 3104 E Greene St											
Fax #:						City: Carlsbad											
Project #: 03C1SS68599						State: TX Zip: 79701											
Project Name: PLK 2S BD W Bdy						State: NM Zip: 88220											
Project Location: 32.10441,-103.63823						Phone #:											
Sampler Name: Erica Rier						Fax #:											
FOR LAB USE ONLY						PRESERV.						SAMPLING					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500								
Hase 788	1	5506	41	GROUNDWATER	✓	2/7/25	✓	✓	✓								
	2	5507	41	WASTEWATER	✓	2/7/25	✓	✓	✓								
	3	5508	41	SOIL	✓	2/7/25	✓	✓	✓								
	4	5509	41	OIL	✓	2/7/25	✓	✓	✓								
				SLUDGE													
				OTHER :													
				ACID/BASE:													
				ICE / COOL ✓													
				OTHER :													

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Relinquished By:	Date: 2-10-25	Received By: Jennifer C. Kelly	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Reinquired By:	Date:	Received By:	All Results are emailed. Please provide Email address:	
Time: 1310			Beill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com	
Date:			REMARKS:	
Time:				

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 1.9 Corrected Temp. °C: 2.2	Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) J.E.	Turnaround Time: Standard Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C: Corrected Temp. °C:
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 07, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/06/25 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 A 1 (H251325-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	6.58	2.00	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	7.73	2.00	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	44.7	6.00	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEx	59.0	12.0	03/06/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1450	10.0	03/06/2025	ND	218	109	200	3.54		
DRO >C10-C28*	4610	10.0	03/06/2025	ND	210	105	200	4.98		
EXT DRO >C28-C36	508	10.0	03/06/2025	ND						

Surrogate: 1-Chlorooctane 184 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 B 2 (H251325-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	2.46	0.500	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	4.25	0.500	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	18.4	1.50	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEx	25.2	3.00	03/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/07/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	449	10.0	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	1440	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	133	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 C 3 (H251325-03)

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	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	0.283	0.050	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	0.819	0.050	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	2.64	0.150	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEX	3.75	0.300	03/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	80.0	10.0	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	517	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	34.1	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.1 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 D 4 (H251325-04)

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	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	0.085	0.050	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	0.206	0.150	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEX	<0.300	0.300	03/06/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2025	ND	400	100	400	7.69		

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	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	51.0	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 A 1 (H251325-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	6.94	1.00	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	10.4	1.00	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	53.4	3.00	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEX	70.9	6.00	03/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/07/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	923	10.0	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	3300	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	379	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 160 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 B 2 (H251325-06)

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	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	0.096	0.050	03/06/2025	ND	2.19	110	2.00	2.86	GC-NC1
Total Xylenes*	0.254	0.150	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEx	0.350	0.300	03/06/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/07/2025	ND	400	100	400	7.69		

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	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	81.8	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.6 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 C 3 (H251325-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2025	ND	1.95	97.6	2.00	6.78	
Toluene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.86	
Total Xylenes*	<0.150	0.150	03/06/2025	ND	6.86	114	6.00	2.95	
Total BTEX	<0.300	0.300	03/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2025	ND	400	100	400	7.69	

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	03/06/2025	ND	218	109	200	3.54	
DRO >C10-C28*	37.0	10.0	03/06/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 05 D 4 (H251325-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2025	ND	1.95	97.6	2.00	6.78		
Toluene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.92		
Ethylbenzene*	<0.050	0.050	03/06/2025	ND	2.19	110	2.00	2.86		
Total Xylenes*	<0.150	0.150	03/06/2025	ND	6.86	114	6.00	2.95		
Total BTEX	<0.300	0.300	03/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/07/2025	ND	400	100	400	7.69		

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	03/07/2025	ND	218	109	200	3.54	
DRO >C10-C28*	10.4	10.0	03/07/2025	ND	210	105	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 E 5 (H251325-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2025	ND	1.91	95.7	2.00	2.80	
Toluene*	0.072	0.050	03/06/2025	ND	2.24	112	2.00	3.90	
Ethylbenzene*	0.242	0.050	03/06/2025	ND	2.32	116	2.00	4.20	GC-NC1
Total Xylenes*	0.801	0.150	03/06/2025	ND	7.07	118	6.00	4.62	
Total BTEX	1.12	0.300	03/06/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/07/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.9	10.0	03/06/2025	ND	190	94.9	200	1.71	
DRO >C10-C28*	222	10.0	03/06/2025	ND	177	88.4	200	6.74	
EXT DRO >C28-C36	14.4	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 F 6 (H251325-10)

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	03/06/2025	ND	1.91	95.7	2.00	2.80		
Toluene*	0.208	0.050	03/06/2025	ND	2.24	112	2.00	3.90		
Ethylbenzene*	0.665	0.050	03/06/2025	ND	2.32	116	2.00	4.20	GC-NC1	
Total Xylenes*	2.30	0.150	03/06/2025	ND	7.07	118	6.00	4.62		
Total BTEX	3.17	0.300	03/06/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/07/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.1	10.0	03/06/2025	ND	190	94.9	200	1.71	
DRO >C10-C28*	110	10.0	03/06/2025	ND	177	88.4	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/06/2025
 Reported: 03/07/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599
 Project Location: XTO 32.10441-103.83823

Sampling Date: 03/05/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 G 7 (H251325-11)

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	03/06/2025	ND	1.91	95.7	2.00	2.80	
Toluene*	<0.050	0.050	03/06/2025	ND	2.24	112	2.00	3.90	
Ethylbenzene*	<0.050	0.050	03/06/2025	ND	2.32	116	2.00	4.20	
Total Xylenes*	<0.150	0.150	03/06/2025	ND	7.07	118	6.00	4.62	
Total BTEX	<0.300	0.300	03/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/07/2025	ND	400	100	400	7.69	

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	03/06/2025	ND	190	94.9	200	1.71	
DRO >C10-C28*	<10.0	10.0	03/06/2025	ND	177	88.4	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/06/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 40.6-153

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



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: 575-937-3906

Project #: 03C1558599

Project Name: PLU 25 BD W 13th

Project Location: 32.10441, -103.83823

Sample Name: Green Box

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

4251325

9

10

11

5503E

5503F

5503G

5

6

7

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

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

Relinquished By: *Kevin An*

Date: 5-6-25

Time: 1430

Date: *5-6-25*

Time: *1430*

Date: *5-6-25*

Time: *1430*

Date: *5-6-25*

Time: *1430*

Date: *5-6-25*

Time: *1430*

Date: *5-6-25*

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

All Results are emailed. Please provide Email address:

Brelli@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com

REMARKS:

Turnaround Time: *140 to 36*

Thermometer ID: *413*

Correction Factor: *-0.30C*

Standard *944*

Rush *944*

Bacteria (only) ☐

Cool Intact ☐

Sample Condition ☐

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp.: *34*

Corrected Temp.: *31.7*

Sample Condition

Cool Intact

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐



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

April 16, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/15/25 14:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/15/2025
 Reported: 04/16/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 06 0.5' (H252229-01)

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	04/15/2025	ND	2.04	102	2.00	6.24	
Toluene*	<0.050	0.050	04/15/2025	ND	1.91	95.7	2.00	6.70	
Ethylbenzene*	<0.050	0.050	04/15/2025	ND	1.91	95.6	2.00	5.66	
Total Xylenes*	<0.150	0.150	04/15/2025	ND	5.83	97.1	6.00	5.97	
Total BTEX	<0.300	0.300	04/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/16/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2025	ND	202	101	200	3.15	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	191	95.4	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 17, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/16/25 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/16/2025
 Reported: 04/17/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FS 01 2' (H252297-01)

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	04/17/2025	ND	2.17	109	2.00	4.29	
Toluene*	<0.050	0.050	04/17/2025	ND	2.21	111	2.00	4.20	
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	2.18	109	2.00	4.14	
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.40	107	6.00	3.99	
Total BTEX	<0.300	0.300	04/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/17/2025	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	04/16/2025	ND	180	89.8	200	4.44	
DRO >C10-C28*	<10.0	10.0	04/16/2025	ND	178	88.9	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	04/16/2025	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 601 N Mainfield Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 575-937-3906 Fax #: 575-937-3906 Project #: 03C1558599 Project Owner: XTO Energy Project Name: PLU 25 BD West Battery - Spills Project Location: 32.10441, -103.83823 Sampler Name: Jesse Dorman										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) H250097 F501 2'										(G)GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME 4/15/2019										MATRIX PRESERV SAMPLING TPH 8015 BTEX 8021 Chloride 4500									
Relinquished By: _____ Date: 4-16-25 Time: 12:50 Received By: _____ Date: 4-16-25 Time: 14:47										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: JReich@ensolum.com, BBeill@ensolum.com, TIdorissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com, Jdorman@ensolum.com REMARKS: Incident Number: nAPP2502328318 Cost Center: 2191851001 GFCM: 48605000										Turnaround Time: 4:40 8:30 Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor: -0.56 Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									
Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: JReich@ensolum.com, BBeill@ensolum.com, TIdorissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com, Jdorman@ensolum.com REMARKS: Incident Number: nAPP2502328318 Cost Center: 2191851001 GFCM: 48605000										Turnaround Time: 4:40 8:30 Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor: -0.56 Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									



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

April 21, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/17/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/17/2025
 Reported: 04/21/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/16/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 3 (H252311-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2025	ND	2.04	102	2.00	1.56	
Toluene*	<0.050	0.050	04/17/2025	ND	2.09	104	2.00	1.69	
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	2.05	102	2.00	1.67	
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.03	100	6.00	1.91	
Total BTX	<0.300	0.300	04/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2025	ND	400	100	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	04/17/2025	ND	198	99.2	200	0.427	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	184	91.9	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/17/2025
 Reported: 04/21/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/16/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 3 (H252311-02)

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	04/17/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	04/17/2025	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	2.05	102	2.00	1.67		
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.03	100	6.00	1.91		
Total BTEX	<0.300	0.300	04/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/21/2025	ND	400	100	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	04/17/2025	ND	198	99.2	200	0.427	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	184	91.9	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/17/2025
 Reported: 04/21/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/16/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 04 2 (H252311-03)

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	04/17/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	04/17/2025	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	2.05	102	2.00	1.67		
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.03	100	6.00	1.91		
Total BTEX	<0.300	0.300	04/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2025	ND	400	100	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	04/17/2025	ND	198	99.2	200	0.427	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	184	91.9	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/17/2025
 Reported: 04/21/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/16/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 2 (H252311-04)

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	04/17/2025	ND	2.04	102	2.00	1.56		
Toluene*	<0.050	0.050	04/17/2025	ND	2.09	104	2.00	1.69		
Ethylbenzene*	<0.050	0.050	04/17/2025	ND	2.05	102	2.00	1.67		
Total Xylenes*	<0.150	0.150	04/17/2025	ND	6.03	100	6.00	1.91		
Total BTEX	<0.300	0.300	04/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2025	ND	400	100	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	04/17/2025	ND	198	99.2	200	0.427	
DRO >C10-C28*	<10.0	10.0	04/17/2025	ND	184	91.9	200	0.302	
EXT DRO >C28-C36	<10.0	10.0	04/17/2025	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: 575-937-3906

Project #: 03C1558599

Project Name: PLU 25 BD West Battery - Spills

Project Location: 32.10441, -103.83823

Sampler Name: Jesse Dorman

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV

SAMPLING

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

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Relinquished By:

Date: 4-17-25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Email Address: jreich@ensolum.com

Relinquished By:

Date: 4-17-25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Email Address: jreich@ensolum.com

Time:

Date:

Received By:

CHECKED BY:

Turnaround Time: Standard ☐ Rush ☐

Bacteria (only) Sample Condition

Observed Temp. °C

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

CHECKED BY:

Thermometer ID

Correction Factor

Corrected Temp. °C

Sampler - UPS - Bus - Other:

FORM-006 R.3.2 10/07/21

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



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

April 22, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-2' (H252349-01)

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	04/21/2025	ND	2.15	108	2.00	0.553	
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236	
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236	
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607	
Total BTEX	<0.300	0.300	04/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/22/2025	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	04/21/2025	ND	197	98.7	200	3.59	
DRO >C10-C28*	93.6	10.0	04/21/2025	ND	193	96.4	200	4.27	
EXT DRO >C28-C36	18.6	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-2' (H252349-02)

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	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEX	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.7	200	3.59	
DRO >C10-C28*	152	10.0	04/21/2025	ND	193	96.4	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 03 0-2' (H252349-03)

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	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEx	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.7	200	3.59	
DRO >C10-C28*	16.8	10.0	04/21/2025	ND	193	96.4	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 04 0-2' (H252349-04)

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	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEX	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.3	200	6.94	
DRO >C10-C28*	11.0	10.0	04/21/2025	ND	190	95.1	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 2' (H252349-05)

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	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEX	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.3	200	6.94	
DRO >C10-C28*	241	10.0	04/21/2025	ND	190	95.1	200	7.31	
EXT DRO >C28-C36	38.2	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 2' (H252349-06)

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	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEX	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.3	200	6.94	
DRO >C10-C28*	27.6	10.0	04/21/2025	ND	190	95.1	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.2 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/21/2025
 Reported: 04/22/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 2' (H252349-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2025	ND	2.15	108	2.00	0.553		
Toluene*	<0.050	0.050	04/21/2025	ND	2.24	112	2.00	0.236		
Ethylbenzene*	<0.050	0.050	04/21/2025	ND	2.08	104	2.00	0.236		
Total Xylenes*	<0.150	0.150	04/21/2025	ND	6.22	104	6.00	0.0607		
Total BTEX	<0.300	0.300	04/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2025	ND	197	98.3	200	6.94	
DRO >C10-C28*	330	10.0	04/21/2025	ND	190	95.1	200	7.31	
EXT DRO >C28-C36	49.2	10.0	04/21/2025	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 24, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 25 BD W BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/23/25 14:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 10 2' (H252438-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/24/2025	ND	464	116	400	7.14		

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	04/23/2025	ND	232	116	200	7.33	
DRO >C10-C28*	136	10.0	04/23/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 11 2' (H252438-02)

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	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTEX	<0.300	0.300	04/23/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/24/2025	ND	464	116	400	7.14		

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	04/23/2025	ND	232	116	200	7.33	
DRO >C10-C28*	59.0	10.0	04/23/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 12 2' (H252438-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2025	ND	2.13	107	2.00	1.91		
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65		
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57		
Total BTX	<0.300	0.300	04/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2025	ND	464	116	400	7.14		

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	04/23/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 13 2' (H252438-04)

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	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2025	ND	464	116	400	7.14		

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	04/23/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 14 2' (H252438-05)

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	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2025	ND	464	116	400	7.14	

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	04/24/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/24/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 15 2' (H252438-06)

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	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2025	ND	464	116	400	7.14	

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	04/24/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/24/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 16 2' (H252438-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2025	ND	2.13	107	2.00	1.91	
Toluene*	<0.050	0.050	04/23/2025	ND	2.14	107	2.00	3.79	
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/23/2025	ND	7.04	117	6.00	4.57	
Total BTEX	<0.300	0.300	04/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2025	ND	464	116	400	7.14		

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	04/24/2025	ND	232	116	200	7.33	
DRO >C10-C28*	<10.0	10.0	04/24/2025	ND	223	111	200	9.21	
EXT DRO >C28-C36	<10.0	10.0	04/24/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/23/2025
 Reported: 04/24/2025
 Project Name: PLU 25 BD W BATTERY
 Project Number: 03C1558599 (SPILLS)
 Project Location: XTO 32.10441-103.83823

Sampling Date: 04/22/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 08 2.5' (H252438-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2025	ND	2.13	107	2.00	1.91		
Toluene*	0.082	0.050	04/23/2025	ND	2.14	107	2.00	3.79		
Ethylbenzene*	<0.050	0.050	04/23/2025	ND	2.30	115	2.00	4.65		
Total Xylenes*	0.305	0.150	04/23/2025	ND	7.04	117	6.00	4.57		
Total BTEX	0.387	0.300	04/23/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2025	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.7	10.0	04/23/2025	ND	184	92.1	200	2.04	
DRO >C10-C28*	306	10.0	04/23/2025	ND	184	92.2	200	3.40	
EXT DRO >C28-C36	19.9	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marlenfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-937-3906

Fax #:

Project #: 03C1558599 Project Owner: XTO Energy

Project Name: PLU 25 BD West Battery - Spills

Project Location: 32.10441, -103.83823

Sampler Name: Jesse Dorman

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth
(feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

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Reinquinished By:

Date:

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address: JReich@ensolum.com

REMARKS: Incident Number: nAPP2502328318

Cost Center: 2191851001

GFCM: 48605000

Reinquinished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Rush

Thermometer ID

Bacteria (only)

Cool Intact

Sample Condition

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



APPENDIX E

NMOCD Notifications

From: [Buchanan, Michael, EMNRD](#)
To: [Brown, Colton S](#); [CFO_Spill, BLM_NM](#)
Cc: [Dirkx, Kaylan](#); [Woodall, Robert D](#); [Mcafee, Ashley A](#); [Tacoma Morrissey](#); [Ben Belill](#); [Tracy Hillard](#); [Rodgers, Scott, EMNRD](#)
Subject: RE: [EXTERNAL] XTO - Status Update - PLU 25 BD West Battery - nAPP2502328318
Date: Monday, April 21, 2025 4:06:04 PM

[**EXTERNAL EMAIL**]

Good afternoon, Colton

The 90-day extension request to complete remediation activities at the site is approved. The incident details in the application have been updated to reflect this extension approval. Your new date to submit the closure or remediation plan report will be 07/21/2025.

Thank you,

From: Brown, Colton S <colton.s.brown@exxonmobil.com>
Sent: Monday, April 21, 2025 8:21 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Woodall, Robert D <robert.d.woodall@exxonmobil.com>; Mcafee, Ashley A <ashley.a.mcafee@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Tracy Hillard <thillard@ensolum.com>
Subject: [EXTERNAL] XTO - Status Update - PLU 25 BD West Battery - nAPP2502328318

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

XTO is providing a remediation status update for a crude oil release that occurred at the PLU 25 BD West Battery (Incident Number nAPP2502328318) Site. The release occurred on January 22, 2025. Delineation activities were conducted on February 7 and March 5, 2025. Excavation of impacted soil was conducted between April 14 and April 17, 2025, with an estimated 240 cubic yards of impacted soil excavated. Laboratory analytical results for soil samples collected from the current excavation extent exceeded the Site Closure Criteria. In order to complete additional excavation of impacted soil, conduct final confirmation soil sampling, and prepare a closure request or remediation work plan, XTO respectfully requests a 90-day extension until July 21, 2025.

Thank you,

Colton Brown
Spill Coordinator

ExxonMobil Upstream Company

3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-2390
colton.s.brown@exxonmobil.com

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 485012

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2502328318
Incident Name	NAPP2502328318 PLU 25 BD WEST BATTERY @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2126355953] PLU 25 BRUSHY DRAW BTY

Location of Release Source

Please answer all the questions in this group.

Site Name	PLU 25 BD WEST BATTERY
Date Release Discovered	01/22/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Oil 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: Freeze Dump Valve Crude Oil Released: 14 BBL Recovered: 5 BBL Lost: 9 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 485012

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 07/15/2025
--	--

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QUESTIONS, Page 3

Action 485012

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 485012
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1570
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	631
GRO+DRO (EPA SW-846 Method 8015M)	597
BTEX (EPA SW-846 Method 8021B or 8260B)	3.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/07/2025
On what date will (or did) the final sampling or liner inspection occur	04/22/2025
On what date will (or was) the remediation complete(d)	04/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	5130
What is the estimated volume (in cubic yards) that will be reclaimed	455
What is the estimated surface area (in square feet) that will be remediated	5130
What is the estimated volume (in cubic yards) that will be remediated	455
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 485012

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 07/15/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 485012

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Seperators, above ground pipelines and electrical boxes
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1930
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	215
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	PLU 25 BRUSHY DRAW BTY [fAPP2126355953]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 07/15/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 485012

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	452846
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/21/2025
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	5600

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	No
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CONDITIONS

Action 485012

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 485012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of the areas under production equipment to the north, east and south of SW-01 and SW-02 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	8/20/2025