



November 11, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
PLU 16 TWR CVB
Incident Number nAPP2422957948
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 site assessment, delineation, and soil sampling activities at the PLU 16 TWR CVB (Site). The purpose of the assessment and soil sampling activities was to document the presence or absence of impacts to soil following a flare fire on the pad surface. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing assessment and soil sampling activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2422957948 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit C, Section 21, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.20841°, -103.78655°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 14, 2024, a release of approximately 70 barrels (bbls) of crude oil onto the pad surface resulting from a flare fire. After the fire was extinguished, no fluids remained to be recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on August 16, 2024, and submitted an Initial Release C-141 Application (C-141) on August 19, 2024. The release was assigned Incident Number nAPP2422957948.

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 estimated to be greater than 100 feet below ground surface (bgs) based on data from a soil boring drilled to investigate regional groundwater depth. In December 2020, a soil boring permitted by New Mexico Office of the State Engineer (C-4499) was completed approximately 0.5 miles southwest of the Site utilizing hollow stem auger drilling method. Soil boring C-

4499 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well 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 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 10,620 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On August 20, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four delineation soil samples (SS01 through SS04) were collected around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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 SS04 indicated that all COC concentrations met Closure Criteria and the strictest Table I Closure Criteria, successfully defining the lateral extent of the release. Based on visible scorching in the release area additional remediation activities were warranted.

DELINEATION SOIL SAMPLING AND LABORATORY ANALYTICAL RESULTS

Between August 29, 2024 and September 10, 2024, Ensolum personnel were at the Site to oversee confirmation soil sampling activities and surface scraping. Surface scraping of the release area was conducted as indicated by visible scorching via hand tools. The release occurred on the well pad below an active flare and production equipment. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site production equipment. Following removal of scorched soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the release area. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS33 were collected from the floor of the excavation at a depth of 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures described above at Cardinal in Hobbs, New Mexico. The release extent and confirmation soil sample locations are depicted in Figure 3.

Laboratory analytical results for all confirmation soil samples, with the exception of FS21, FS22, and FS28, were in compliance with Closure Criteria. Confirmation soil samples FS21, FS22, and FS28 indicated TPH concentrations exceeded Closure Criteria.

On October 23, 2024, Ensolum personnel returned to the Site to conduct delineation activities in the vicinity of FS21, FS22, and FS28. Borehole, BH01, was advanced via backpack core drill to a terminal depth of 1-foot bgs. Discrete soil samples were collected from the delineation borehole at 0.5 feet bgs and the terminal depth of 1-foot bgs. Soil from the delineation borehole was field screened for VOCs and chloride. Field screening results and observations of the borehole were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample location is depicted on Figure 2. Soil samples were collected and handled as described above.

The estimated area of remaining impacted soil measures approximately 600 square feet and, assuming a 1-foot depth based on the delineation soil sample BH01A, a total of approximately 22 cubic yards of TPH-impacted soil remains in place. The estimated area of remaining impacted soil and delineation soil sample locations are presented on Figure 2.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment preventing full removal of impacted soil. The impacted soil is limited to the area below an active flare and production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil sample BH01 at 1-foot bgs. The soil is laterally delineated by delineation soil samples from SS01 through SS04.

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. Any gross impacts were removed via scraping of the surface soils.

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 nAPP2422957948 until final reclamation of the well pad or major construction, whichever comes first.

XTO Energy, Inc
Deferral Request
PLU 16 TWR CVB



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 "Ashley L. Ager".

Ashley L. Ager, M.S., P.G.
Program Director

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

Appendices:

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



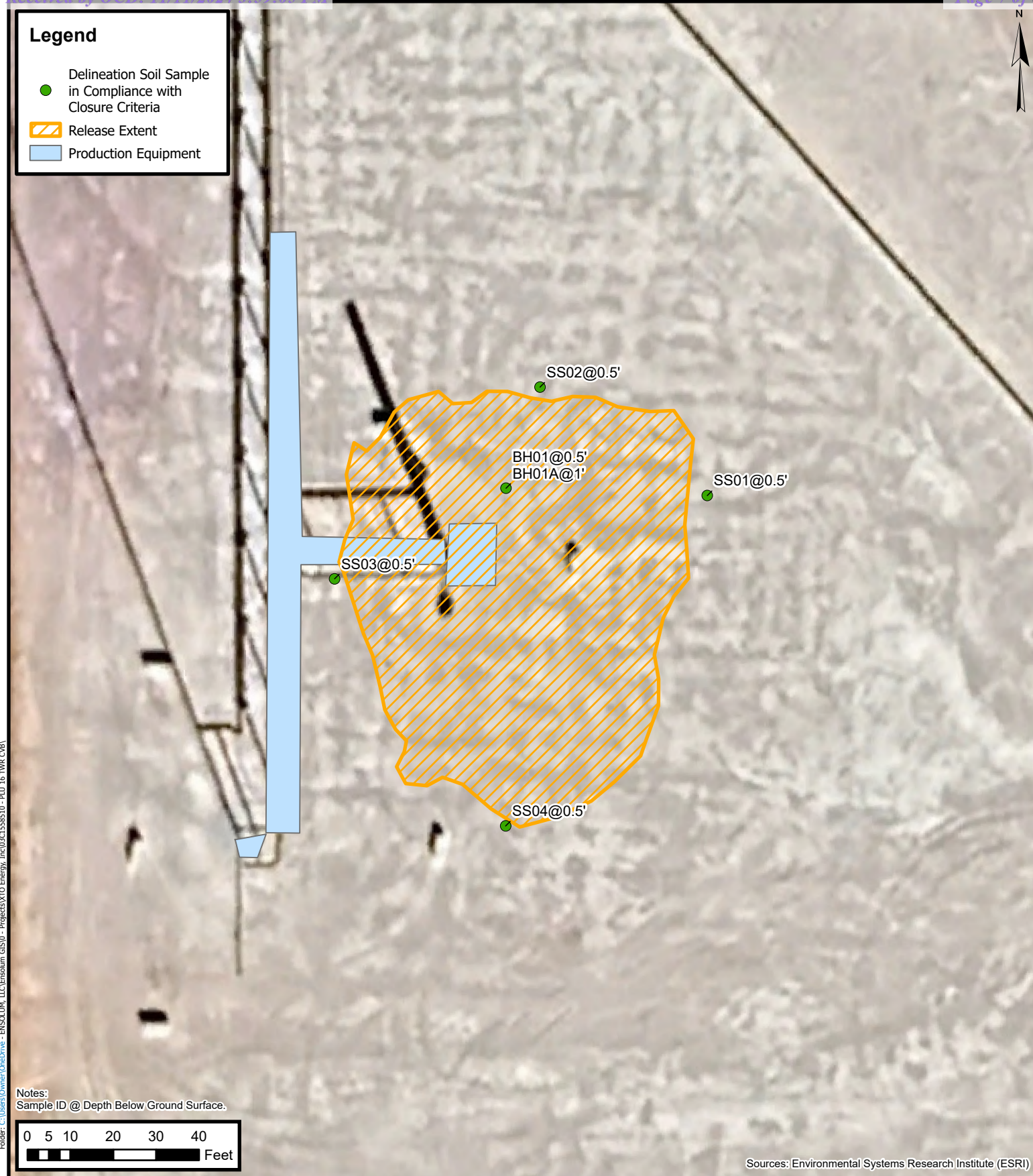
FIGURES



FIGURE 1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Release Extent
- Production Equipment

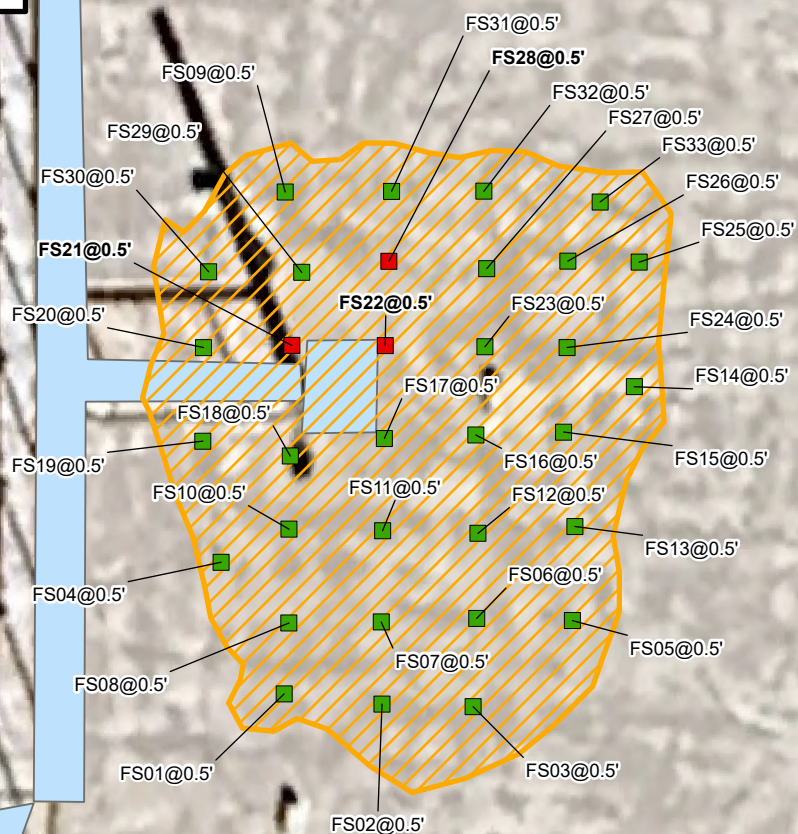
**Delineation Soil Sample Locations**

XTO Energy, Inc
PLU 16 TWR CVB
Incident Number: NAPP2422957948
Unit C, Sec 21, T24S, R31E
Eddy County, New Mexico

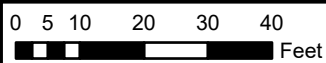
FIGURE
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Release Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Location

XTO Energy, Inc
PLU 16 TWR CVB
Incident Number: NAPP2422957948
Unit C, Sec 21, T24S, R31E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 16 TWR CVB
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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	8/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	8/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SS03	8/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS04	8/19/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH01	10/23/2024	0.5	<0.050	<0.300	<10.0	41.4	<10.0	41.4	41.4	64.0
BH01A	10/23/2024	1	<0.050	<0.300	<10.0	16.0	<10.0	16.0	16.0	80.0
Confirmation Soil Samples										
FS01	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS02	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS03	9/9/2024	0.5	<0.050	<0.300	<10.0	40.9	15.0	40.9	55.9	48.0
FS04	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS05	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS06	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS08	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS09	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS10	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	9/9/2024	0.5	<0.050	<0.300	<10.0	25.0	<10.0	25.0	25.0	32.0
FS12	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS14	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS15	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS16	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS17	9/9/2024	0.5	<0.050	<0.300	<10.0	158	36.2	158	194	32.0
FS18	9/9/2024	0.5	<0.050	<0.300	<10.0	137	37.6	137	175	32.0
FS19	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS20	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS21	9/9/2024	0.5	<0.050	7.35	156	2,630	2,790	2,790	5,580	16.0
FS22	9/9/2024	0.5	<0.050	18.8	368	5,040	1,040	5,410	6,450	64.0
FS23	9/9/2024	0.5	<0.050	<0.300	<10.0	99.6	37.6	99.6	137	32.0
FS24	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS25	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS26	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 16 TWR CVB
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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS27	9/9/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS28	9/9/2024	0.5	<0.050	<0.300	<10.0	1,130	408	1,130	1,540	64.0
FS29	9/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS30	9/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS31	9/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS32	9/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS33	9/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4499			
	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 32°		MINUTES 12'	SECONDS 15.89"	N		
		LONGITUDE -103°		47'	36.29"	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NE Sec. 20 T24S R31E								
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 12/30/2020		DRILLING ENDED 12/30/2020		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	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 checked="" 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	110	±8.5	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-4499	POD NO. 1	TRN NO. 182532
LOCATION 24S.31E.20.243	WELL TAG ID NO. —	PAGE 1 OF 2

OSE DJT JAN 27 2021 PM3:34

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	SAND, well graded, fine-to-large grain particles red-brown, dry	✗ ✓ N	
	6	8	2	SAND, poorly graded, fine grained little clay mod. plasticity, red-brown, moist	Y ✓ N	
	8	11	3	CALICHE, mod. consolidated, some sand, medium /fine grain, white-tan, dry	Y ✓ N	
	11	46	35	CALICHE, mod. consolidated, some sand, medium to fine grain, white-tan, dry.	Y ✓ N	
	46	74	28	SAND, well-graded, medium grain, caliche gravel (1-4mm), light brown, dry.	Y ✓ N	
	74	110	36	SAND, well-graded, fine/large grain, few clay, cohesive, red-brown, dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from 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	01/15/2021
	SIGNATURE OF DRILLER / PRINT SIGNED NAME	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	C-4499	POD NO.	1
LOCATION		TRN NO.	482532
		WELL TAG ID NO.	PAGE 2 OF 2

USE DT JPN 27 2021 PM 3:34






2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign

Final Audit Report

2021-01-15

Created:	2021-01-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAgs296c366oCiflrLCiy9WDKJlrUnq-9u

"2021-1-15_C-4499_POD1_OSE_Well Record and Log_plu129-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2021-01-15 - 8:45:00 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-01-15 - 8:45:35 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2021-01-15 - 9:05:13 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-01-15 - 9:13:18 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2021-01-15 - 9:13:18 PM GMT

OSE DJJ JAN 27 2021 PM3:34



APPENDIX B

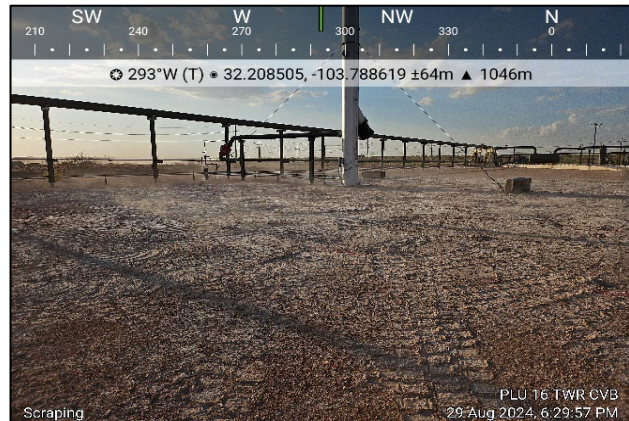
Photographic Log

**Photographic Log**

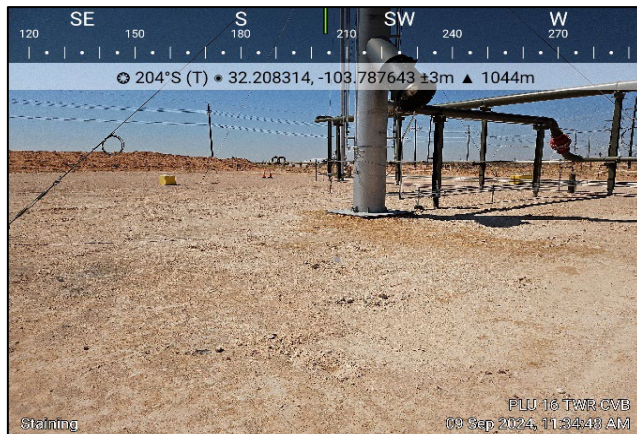
XTO Energy, Inc
 PLU 16 TWR CVB
 nAPP2422957948



Photograph: 1 Date: 8/19/2024
 Description: Scorching in release extent
 View: Northwest



Photograph: 2 Date: 8/29/2024
 Description: Surface scraping activities
 View: Northwest



Photograph: 3 Date: 9/9/2024
 Description: Sampling activities
 View: Southwest




Photograph: 4 Date: 10/23/2024
 Description: Core drill sampling activities
 View: South



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 10-23-24	
								Site Name: PLU 16 TWR CVB			
								Incident Number: NAPP2422957948			
								Job Number: 03C1558510			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Conner W.		Method: Core Drill	
Coordinates: 32.208259, -103.787705								Hole Diameter: 3'X1'		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% 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			
N	<168	0	N	BH01	0.5	0.5	CCHE	Tan poorly graded caliche			
N	<168	0	N	BH01A	1	1	SP	Brown very fine sand with silt			
Total Depth 1'											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>											



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 22, 2024

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

RE: PLU 16 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 08/19/24 16:34.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

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: 08/19/2024
 Reported: 08/22/2024
 Project Name: PLU 16 TWR CVB
 Project Number: 03C1558
 Project Location: XTO 32.20841-103.78655

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 01 0.5' (H245030-01)

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	08/21/2024	ND	2.16	108	2.00	7.02	
Toluene*	<0.050	0.050	08/21/2024	ND	2.27	114	2.00	8.26	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.32	116	2.00	8.21	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.93	115	6.00	8.39	
Total BTEX	<0.300	0.300	08/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	08/21/2024	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	08/21/2024	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	209	105	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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: 08/19/2024
 Reported: 08/22/2024
 Project Name: PLU 16 TWR CVB
 Project Number: 03C1558
 Project Location: XTO 32.20841-103.78655

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 02 0.5' (H245030-02)

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	08/21/2024	ND	2.16	108	2.00	7.02	
Toluene*	<0.050	0.050	08/21/2024	ND	2.27	114	2.00	8.26	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.32	116	2.00	8.21	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.93	115	6.00	8.39	
Total BTEX	<0.300	0.300	08/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	176	16.0	08/21/2024	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	08/21/2024	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	209	105	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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: 08/19/2024
 Reported: 08/22/2024
 Project Name: PLU 16 TWR CVB
 Project Number: 03C1558
 Project Location: XTO 32.20841-103.78655

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 03 0.5' (H245030-03)

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	08/21/2024	ND	2.16	108	2.00	7.02	
Toluene*	<0.050	0.050	08/21/2024	ND	2.27	114	2.00	8.26	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.32	116	2.00	8.21	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.93	115	6.00	8.39	
Total BTEX	<0.300	0.300	08/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	208	16.0	08/21/2024	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	08/21/2024	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	209	105	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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: 08/19/2024
 Reported: 08/22/2024
 Project Name: PLU 16 TWR CVB
 Project Number: 03C1558
 Project Location: XTO 32.20841-103.78655

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SS 04 0.5' (H245030-04)

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	08/21/2024	ND	2.16	108	2.00	7.02	
Toluene*	<0.050	0.050	08/21/2024	ND	2.27	114	2.00	8.26	
Ethylbenzene*	<0.050	0.050	08/21/2024	ND	2.32	116	2.00	8.21	
Total Xylenes*	<0.150	0.150	08/21/2024	ND	6.93	115	6.00	8.39	
Total BTEX	<0.300	0.300	08/21/2024	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	48.0	16.0	08/21/2024	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	08/21/2024	ND	214	107	200	1.72	
DRO >C10-C28*	<10.0	10.0	08/21/2024	ND	209	105	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	08/21/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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

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 "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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E. Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marientfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 575-937-3900 Fax #:

Project #: 03C1558 Project Owner:

Project Name: PLU 10 TWR CVB

Project Location: 32.20841, -103.78655

Sampler Name: Tracy Hillard M. O'Dell

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.
CONTAINERS
MATRIX
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE TIME

TPH 8015
BTEX 8021
Chloride 4500

SS01
SS02
SS03
SS04

0.5'

1

X

X

X

X

X

X

X

X

X

X

X

1

2

3

4

X

X

X

X

X

X

X

X

X

X

X

X

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Relinquished By: [Signature]

Date: 8/19/24
Time: 10:34

Received By: [Signature]

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

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

Relinquished By:

Date:

Received By:

REMARKS: Incident: NAPP2422957948
Cost Center: 224513100

Delivered By: (Circle One)

Observed Temp.: 1.6
Corrected Temp.: 1.0

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: (Initials)
[Signature]

Turnaround Time: Standard ☒ Rush ☐
Thermometer ID: #113-#146
Correction Factor: -0.5°C - 0.6°C

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

FORM-006 R 3.2 10/07/21

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



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

September 11, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 16 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 13:00.

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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 01 0.5' (H245462-01)

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	09/10/2024	ND	2.05	102	2.00	12.5	
Toluene*	<0.050	0.050	09/10/2024	ND	2.08	104	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	12.9	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.52	109	6.00	12.4	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	09/11/2024	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	09/10/2024	ND	204	102	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	199	99.4	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 0.5' (H245462-02)

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	09/10/2024	ND	2.05	102	2.00	12.5	
Toluene*	<0.050	0.050	09/10/2024	ND	2.08	104	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	12.9	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.52	109	6.00	12.4	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	48.0	16.0	09/11/2024	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	09/11/2024	ND	204	102	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	199	99.4	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 0.5' (H245462-03)

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	09/10/2024	ND	2.05	102	2.00	12.5	
Toluene*	<0.050	0.050	09/10/2024	ND	2.08	104	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	12.9	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.52	109	6.00	12.4	
Total BTEx	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	48.0	16.0	09/11/2024	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	09/11/2024	ND	204	102	200	3.00	
DRO >C10-C28*	40.9	10.0	09/11/2024	ND	199	99.4	200	4.92	
EXT DRO >C28-C36	15.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 0.5' (H245462-04)

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	09/10/2024	ND	2.05	102	2.00	12.5	
Toluene*	<0.050	0.050	09/10/2024	ND	2.08	104	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	2.07	103	2.00	12.9	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.52	109	6.00	12.4	
Total BTEX	<0.300	0.300	09/10/2024	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	64.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/11/2024	ND	204	102	200	3.00	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	199	99.4	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 0.5' (H245462-05)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 0.5' (H245462-06)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 0.5' (H245462-07)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 0.5' (H245462-08)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 0.5' (H245462-09)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 0.5' (H245462-10)

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	09/10/2024	ND	1.85	92.5	2.00	1.88		
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82		
Total BTEX	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	09/11/2024	ND	416	104	400	3.92		

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 0.5' (H245462-11)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	25.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 0.5' (H245462-12)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 0.5' (H245462-13)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 0.5' (H245462-14)

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	09/10/2024	ND	1.85	92.5	2.00	1.88		
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64		
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79		
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82		
Total BTEx	<0.300	0.300	09/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92		

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 0.5' (H245462-15)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 0.5' (H245462-16)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 0.5' (H245462-17)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	158	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	36.2	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 0.5' (H245462-18)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	137	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	37.6	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 0.5' (H245462-19)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 0.5' (H245462-20)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	48.0	16.0	09/11/2024	ND	416	104	400	3.92	

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	09/10/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 0.5' (H245462-21)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	0.469	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	0.402	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	6.47	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	7.35	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	16.0	16.0	09/11/2024	ND	416	104	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	156	10.0	09/11/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	2630	10.0	09/11/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	584	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 0.5' (H245462-22)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	1.48	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	1.75	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	15.5	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTX	18.8	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 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	09/11/2024	ND	416	104	400	3.92	

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*	368	10.0	09/11/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	5040	10.0	09/11/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	1040	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 0.5' (H245462-23)

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	09/10/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/10/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	0.084	0.050	09/10/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	09/11/2024	ND	416	104	400	3.92	

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	09/11/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	99.6	10.0	09/11/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	37.6	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 0.5' (H245462-24)

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	09/11/2024	ND	1.85	92.5	2.00	1.88	
Toluene*	<0.050	0.050	09/11/2024	ND	1.75	87.7	2.00	2.64	
Ethylbenzene*	<0.050	0.050	09/11/2024	ND	1.79	89.5	2.00	2.79	
Total Xylenes*	<0.150	0.150	09/11/2024	ND	5.33	88.8	6.00	2.82	
Total BTEX	<0.300	0.300	09/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	09/11/2024	ND	400	100	400	3.92	

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	09/11/2024	ND	193	96.3	200	1.03	
DRO >C10-C28*	<10.0	10.0	09/11/2024	ND	192	95.9	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	09/11/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 0.5' (H245462-25)

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	09/10/2024	ND	2.05	103	2.00	0.645	
Toluene*	<0.050	0.050	09/10/2024	ND	1.92	96.1	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.97	98.5	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.03	100	6.00	4.10	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	64.0	16.0	09/11/2024	ND	400	100	400	3.92	

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	09/10/2024	ND	191	95.5	200	3.07	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	196	98.1	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 0.5' (H245462-26)

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	09/10/2024	ND	2.05	103	2.00	0.645	
Toluene*	<0.050	0.050	09/10/2024	ND	1.92	96.1	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.97	98.5	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.03	100	6.00	4.10	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	09/11/2024	ND	400	100	400	3.92	

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	09/10/2024	ND	191	95.5	200	3.07	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	196	98.1	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 64.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 0.5' (H245462-27)

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	09/10/2024	ND	2.05	103	2.00	0.645	
Toluene*	<0.050	0.050	09/10/2024	ND	1.92	96.1	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.97	98.5	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.03	100	6.00	4.10	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	09/11/2024	ND	400	100	400	3.92	

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	09/10/2024	ND	191	95.5	200	3.07	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	196	98.1	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 66.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 09/10/2024
Reported: 09/11/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 09/09/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 0.5' (H245462-28)

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	09/10/2024	ND	2.05	103	2.00	0.645	
Toluene*	<0.050	0.050	09/10/2024	ND	1.92	96.1	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.97	98.5	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.03	100	6.00	4.10	
Total BTX	<0.300	0.300	09/10/2024	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	64.0	16.0	09/11/2024	ND	400	100	400	3.92	

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	09/10/2024	ND	191	95.5	200	3.07	
DRO >C10-C28*	1130	10.0	09/10/2024	ND	196	98.1	200	3.53	
EXT DRO >C28-C36	408	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1
w

Company Name: Ensolum, LLC Project Manager: Tracy Hillard Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 5759373906 Fax #: Project #: 03C1558510 Project Owner: Project Name: PLU 16 TWR CVB Project Location: 32.208410, -103.786550 Sample Name: Uriel Santillana										BILL TO P.O. #: Company: XTO Energy Attn: Amy Ruth Address: 3104 E Green st City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:										ANALYSIS REQUEST									
FOR LAB USE ONLY Lab I.D. Sample I.D. Depth (feet) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME										MATRIX PRESERV. SAMPLING										Chloride TPH BTEX									
1 F502 0.5' C 1 X 2 F502 3 F503 4 F504 5 F505 6 F506 7 F507 8 F508 9 F509 10 F510										1023 1028 1033 1111 1041 1047 1054 1101 1132 1115										X X X X X X X X X X									
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C Corrected Temp. °C										Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-3

Company Name: Ensolum, LLC				P.O. #:				BILL TO				ANALYSIS REQUEST			
Project Manager: Tracy Hillard				Company: XTO Energy											
Address: 3122 National Parks Hwy				Attn: Amy Ruth											
City: Carlsbad				Address: 3104 E Green st											
Phone #: 5759373906				City: Carlsbad											
Fax #: 5759373906				State: NM Zip: 88220											
Project #: 03C1558510				State: NM Zip: 88220											
Project Name: PLU 16 TWR CVB				Phone #:											
Project Location: 32.208410, -103.786550				Fax #:											
Sampler Name: Uriel Santillana				PRESERV				SAMPLING							
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	Chloride	BTEX	TPH					
11	FS11	0.5'	C	1	X	9/9/24	1301	X	X	X					
12	FS12						1305								
13	FS13						1310								
14	FS14						1316								
15	FS15						1322								
16	FS16						1328								
17	FS17						1333								
18	FS18						1338								
19	FS19						1346								
20	FS20						1352								

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Relinquished By:	Date: 8-10-24	Received By: Spodeigneur	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 1300	Received By:	All Results are emailed. Please provide Email address:	
			thillard@ensolum.com	tmorrissey@ensolum.com
			REMARKS: Cost center: 2245131001	
			Incident Number: nAPP2422957948	
			Turnaround Time: 24 hr	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Thermometer ID #449	Correction Factor: 0.7C
			Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C	Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C
			Corrected Temp. °C	

Delivered By: (Circle One) ☐ UPS ☐ Bus ☐ Other: ☐

Observed Temp. °C: 13.4

Corrected Temp. °C: 0.7C

Sample Condition: ☒ Cool Intact ☐ No

CHECKED BY: (Initials) SK

FORM-006 (R 3-2-10) 07/12/1

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Tracy Hillard				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy															
City: Carlsbad				Attn: Amy Ruth															
State: NM Zip: 88220				Address: 3104 E Green st															
Phone #: 5759373906 Fax #:				City: Carlsbad															
Project #: 03C1558510 Project Owner:				State: NM Zip: 88220															
Project Name: PLU 16 TWR CVB				Phone #:															
Project Location: 32.208410, -103.786550				Fax #:															
Sampler Name: Uriel Santillana				PRESERV				SAMPLING											
<small>FOR LAB USE ONLY</small>																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS
1645462	FS21	0.5'		1	SOIL				9/9/24	1404	X Chloride	X BTEX	X TPH						
21	FS22									1410									
22	FS23									1417									
23	FS24									1422									
24	FS25									1429									
25	FS26									1458									
26	FS27									1504									
27	FS28									1515									
28																			

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Relinquished By:	Received By:	Date:	Time:	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY:	Incident Number:	Standard	Bacteria (only)	Sample Condition	Observed Temp. °C	Corrected Temp. °C
UJF	Shodeiqwey	9/10/24	1300	1.3	0.7	Yes	SP	2245131001	Standard	Yes	Standard	14.0	14.0

Relinquished By: _____ **Date:** _____ **Time:** _____

Received By: _____ **Date:** _____ **Time:** _____

Observed Temp. °C: 1.3 **Corrected Temp. °C:** 0.7

Sample Condition: Cool ☒ Intact ☐ Yes ☐ No

CHECKED BY: (Initials) SP

Incident Number: nAPP2422957948

Standard: ☒ **Bacteria (only):** ☐ **Sample Condition:** ☐ **Observed Temp. °C:** ☐ **Corrected Temp. °C:** ☐

Remarks: Cost center: 2245131001

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

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

Turnaround Time: 24 hr **Standard:** ☒ **Bacteria (only):** ☐ **Sample Condition:** ☐ **Observed Temp. °C:** ☐ **Corrected Temp. °C:** ☐

Thermometer ID: #1486 **Correction Factor:** -0.5°C

FORM-006 R 3-2 10/07/21

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

September 17, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 16 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 15:39.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:Reported:
17-Sep-24 15:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS29 0.5	H245548-01	Soil	10-Sep-24 12:20	12-Sep-24 15:39
FS30 0.5	H245548-02	Soil	10-Sep-24 12:10	12-Sep-24 15:39
FS31 0.5	H245548-03	Soil	10-Sep-24 12:25	12-Sep-24 15:39
FS32 0.5	H245548-04	Soil	10-Sep-24 12:35	12-Sep-24 15:39
FS33 0.5	H245548-05	Soil	10-Sep-24 12:45	12-Sep-24 15:39

09/17/24 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 09/16/24.

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

FS29 0.5
H245548-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091243	JH	13-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134		4091243	JH	13-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	

Surrogate: 1-Chlorooctane		74.6 %		48.2-134		4091251	MS	13-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		90.5 %		49.1-148		4091251	MS	13-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

FS30 0.5
H245548-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091243	JH	13-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	4091243	JH	13-Sep-24	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	

Surrogate: 1-Chlorooctane			82.5 %		48.2-134	4091251	MS	13-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	4091251	MS	13-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

FS31 0.5
H245548-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091243	JH	13-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		4091243	JH	13-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	

Surrogate: 1-Chlorooctane			79.2 %	48.2-134		4091251	MS	13-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.7 %	49.1-148		4091251	MS	13-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

FS32 0.5
H245548-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091243	JH	13-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4091243	JH	13-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	

Surrogate: 1-Chlorooctane			77.3 %	48.2-134		4091251	MS	13-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.0 %	49.1-148		4091251	MS	13-Sep-24	8015B	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

FS33 0.5
H245548-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4091321	HM	13-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091243	JH	13-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4091243	JH	13-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		115 %		71.5-134		4091243	JH	13-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091251	MS	13-Sep-24	8015B	

Surrogate: 1-Chlorooctane		86.6 %		48.2-134		4091251	MS	13-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		106 %		49.1-148		4091251	MS	13-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4091321 - 1:4 DI Water									
Blank (4091321-BLK1)					Prepared & Analyzed: 13-Sep-24				
Chloride	ND	16.0	mg/kg						
LCS (4091321-BS1)					Prepared & Analyzed: 13-Sep-24				
Chloride	416	16.0	mg/kg	400		104 80-120			
LCS Dup (4091321-BSD1)					Prepared & Analyzed: 13-Sep-24				
Chloride	416	16.0	mg/kg	400		104 80-120	0.00	20	

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091243 - Volatiles**Blank (4091243-BLK1)**

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0562		mg/kg	0.0500		112	71.5-134			

LCS (4091243-BS1)

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

Benzene	2.21	0.050	mg/kg	2.00		110	82.8-130			
Toluene	2.25	0.050	mg/kg	2.00		113	86-128			
Ethylbenzene	2.45	0.050	mg/kg	2.00		122	85.9-128			
m,p-Xylene	4.96	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.45	0.050	mg/kg	2.00		123	86.1-125			
Total Xylenes	7.42	0.150	mg/kg	6.00		124	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			

LCS Dup (4091243-BSD1)

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

Benzene	2.20	0.050	mg/kg	2.00		110	82.8-130	0.422	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	2.42	15.9	
Ethylbenzene	2.38	0.050	mg/kg	2.00		119	85.9-128	2.72	16	
m,p-Xylene	4.81	0.100	mg/kg	4.00		120	89-129	3.16	16.2	
o-Xylene	2.40	0.050	mg/kg	2.00		120	86.1-125	2.26	16.7	
Total Xylenes	7.21	0.150	mg/kg	6.00		120	88.2-128	2.86	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: PLU 16 TWR CVB
Project Number: 03C1558510
Project Manager: TRACY HILLARD
Fax To:

Reported:
17-Sep-24 15:26

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4091251 - General Prep - Organics**Blank (4091251-BLK1)**

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	41.6		mg/kg	50.0		83.2	48.2-134		
Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	49.1-148		

LCS (4091251-BS1)

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

GRO C6-C10	194	10.0	mg/kg	200		96.8	66.4-123		
DRO >C10-C28	199	10.0	mg/kg	200		99.6	66.5-118		
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	77.6-123		
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.0	48.2-134		
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148		

LCS Dup (4091251-BS1)

Prepared: 12-Sep-24 Analyzed: 13-Sep-24

GRO C6-C10	193	10.0	mg/kg	200		96.4	66.4-123	0.472	17.7
DRO >C10-C28	198	10.0	mg/kg	200		99.2	66.5-118	0.413	21
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.6-123	0.442	18.5
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	48.2-134		
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	49.1-148		

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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

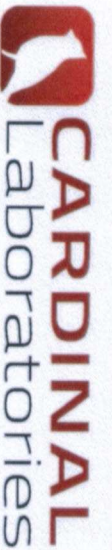
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO										ANALYSIS REQUEST															
Project Manager: Tracy Hillard		Company: XTO Energy																											
Address: 3122 National Parks Hwy		Attn: Amy Ruth																											
City: Carlsbad		Address: 3104 E Green st																											
State: NM Zip: 88220																													
Phone #: 5759373906 Fax #:																													
Project #: 03C1558510 Project Owner:		City: Carlsbad																											
Project Name: PLU 16 TWR CVB		State: NM Zip: 88220																											
Project Location: 32.208410, -103.786550		Phone #:																											
Sample Name: Thiel Santillana Joshua Boxley		Fax #:																											
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH	BTEX												
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								ACID/BASE:	ICE / COOL	OTHER :									
H245348 *	1 FLS29	0.5	C	1										9-10-24	1220	X	X	X											
	2 FLS30		C	1											1210	X	X	X											
	3 FLS31		C	1											1225	X	X	X											
	4 FLS32	1	C	1											1235	X	X	X											
	5 FLS33	0.5	C	1											9-10-24	1245	X	X	X										
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Relinquished By: <i>[Signature]</i>		Date: 9-12-24		Received By: <i>[Signature]</i>		Date: 9-12-24		Time: 1:33 PM		Relinquished By: <i>[Signature]</i>		Date: 9-12-24		Time: 1:33 PM															
Delivered By: (Circle One)		Observed Temp.: 45°C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: 2 days		Standard		Bacteria (only)		Sample Condition															
Sampler - UPS - Bus - Other:		Corrected Temp.: 39°C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		AD		Thermometer ID #1134110		Rush <input checked="" type="checkbox"/>		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Observed Temp.: °C															
				No <input type="checkbox"/> Yes <input type="checkbox"/>				Correction Factor: -0.5°C		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		Corrected Temp.: °C															
FORM-000 R 3.2 10/07/21																													

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

Remarks: *fasten ID changes. 9/17/24*
Incident Number: nAPP2422957948
thillard@ensolum.com timorrissey@ensolum.com
Cost center: 2245131004
K.Thomason@ensolum.com



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

October 28, 2024

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 16 TWR CVB

Enclosed are the results of analyses for samples received by the laboratory on 10/24/24 14:45.

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
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 10/24/2024
Reported: 10/28/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 10/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 01 0.5 (H246484-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.17	109	2.00	8.20	
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31	
Total BTEX	<0.300	0.300	10/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	64.0	16.0	10/25/2024	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	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	41.4	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
TRACY HILLARD
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 10/24/2024
Reported: 10/28/2024
Project Name: PLU 16 TWR CVB
Project Number: 03C1558510
Project Location: XTO 32.208410,-103.786550

Sampling Date: 10/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH 01A 1 (H246484-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2024	ND	2.17	109	2.00	8.20	
Toluene*	<0.050	0.050	10/25/2024	ND	2.14	107	2.00	8.84	
Ethylbenzene*	<0.050	0.050	10/25/2024	ND	2.19	110	2.00	9.04	
Total Xylenes*	<0.150	0.150	10/25/2024	ND	6.53	109	6.00	9.31	
Total BTEX	<0.300	0.300	10/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	10/25/2024	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	10/25/2024	ND	204	102	200	7.01	
DRO >C10-C28*	16.0	10.0	10/25/2024	ND	195	97.5	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS

Action 401403

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 401403
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422957948
Incident Name	NAPP2422957948 PLU 16 TWR CVB @ 0
Incident Type	Fire
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 16 TWR CVB
Date Release Discovered	08/14/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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: Fire Other (Specify) Crude Oil Released: 70 BBL Recovered: 0 BBL Lost: 70 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)	Fire was all at the flair, all burned up

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QUESTIONS, Page 2

Action 401403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
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	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/11/2024
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QUESTIONS, Page 3

Action 401403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 401403
	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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	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)	304
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6450
GRO+DRO (EPA SW-846 Method 8015M)	5410
BTEX (EPA SW-846 Method 8021B or 8260B)	18.8
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	08/19/2024
On what date will (or did) the final sampling or liner inspection occur	10/23/2024
On what date will (or was) the remediation complete(d)	10/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	6465
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remediated	6465
What is the estimated volume (in cubic yards) that will be remediated	120
<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 401403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 401403
	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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/11/2024
<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 401403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 401403
	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	Flare, production piping
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	600
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	22
<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	POKER LAKE UNIT 16 TWR CVB [fAPP2300955240]
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: 11/11/2024

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Action 401403

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 401403
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	393196
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
What was the (estimated) number of samples that were to be gathered	35
What was the sampling surface area in square feet	6500

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 401403

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 401403
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of FS21, FS22, and FS28 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.	11/14/2024